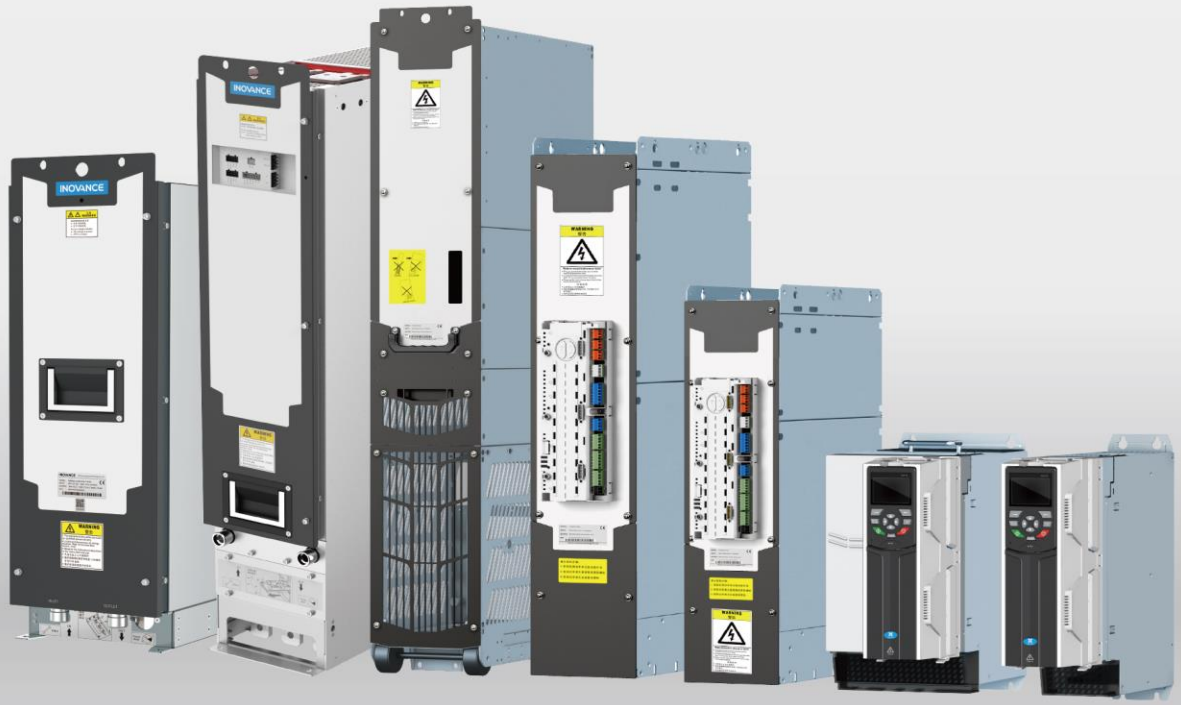
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MD880 Series AC Drive (HCU-50S/HCU-51S/HCU-50S-CS/HCU-51S-CS)

Parameter Guide

Industrial Automation | Intelligent Elevator | New Energy Vehicle | Industrial Robot | Rail Transit

Data code 19012699A00

Preface

Introduction

The MD880 series AC drive targets at high-end transmission applications and features high-performance speed and torque control, high reliability, flexible system integration, easy commissioning and maintenance, and high power density.

It comes into two topological structures, single-drive system and multi-drive system, as well as two cooling methods, air-cooled and water-cooled.

The MD880 series AC drive is applicable to a wide range of industries, including metallurgy, petroleum, paper making, cranes, vessels, shield machines, and test benches.

This user guide is applicable to HCU-50S (B0, C0, E0), HCU-50S-CS (B0, C0, E0), HCU-51S (B0, C0, E0), and HCU-51S-CS (B0, C0, E0).

More Data

Name	Data Code	Description
MD880 Series AC Drive Function Guide (HCU-50S, HCU-50S-CS, HCU-51S, HCU-51S-CS)	PS00016196	Describes function application and troubleshooting of the product.
MD880 Series AC Drive Commissioning Guide (HCU-50S/HCU-50S-CS/HCU-51S/HCU-51S-CS)	PS00015534	Describes the commissioning tool, commissioning process, commissioning procedure, and related parameters of the product.
MD880LC Series AC Drive (Multi-drive System) Hardware Guide	PS00005325	Describes the system structure, technical data, components, dimensions, options (installation accessories, cables, peripherals), and standards compliance of the product.
MD880LC Series AC Drive (Multi-drive System) Installation and Maintenance Guide	PS00005330	Describes pre-installation preparation, unpacking and handling, mechanical installation, electrical installation, routine maintenance, and parts replacement of the product.
MD880-50 Series Inverter Module	PS00014385	Describes the technical data, components, dimensions, pre-installation preparation, unpacking and handling, mechanical installation,

Hardware Guide		electrical installation, routine maintenance, and parts replacement of the product.

Revision History

Date	Version	Software version	Description
2025-04-30	A00	Version:A03.01 Version Tag:A2-08=303.21/A2-09=000.00/A2-10=003.67/A2-11=000.00	First release

Access To the Guide

This guide is not delivered with the product. You can obtain the PDF version in the following ways:

Do keyword search under Service and Support at www.inovance.com.

Scan the QR code on the product to download the PDF document.

Scan the QR code below to install My Inovance app, where you can search for and download user guides.

Warranty

Inovance provides warranty service to the equipment within the warranty period (as specified in the order) for failure or damage that occurs under normal use. When the warranty period expires, reasonable maintenance fee will be charged.

Within the warranty period, maintenance fee will be charged for the following damage:

Damage caused by operations not following the instructions in the user guide

Damage caused by fire, flood, or unusual voltage

Damage caused by unintended use of the product

Damage caused by use beyond the specified scope of application of the product

Damage or secondary damage caused by force majeure (natural disaster, earthquake, and lightning strike)

The maintenance is charged according to the latest Price List of Inovance. If otherwise agreed upon, the agreed terms and conditions shall prevail.

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1 Parameter List

A0 Status monitoring

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-00	Current state machine	32768	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 1: System initialization 2: Power-on check 3: Fault 4: Switch-on inhibited 5: Ready to switch on 6: Pre-charging 7: Ready to run 8: Waiting for demagnetization 9: Pre-operation check 10: Pre-excitation 11: Speed tracking 12: Run 13: OFF1 stop 14: OFF3 stop 15: DC braking at start 16: Auto-inspection preparation 17: Auto-inspection 18: Auto-tuning preparation 19: Auto-tuning 20: Parameter recovery 21: Parameter download 22: Jog 23: Jog stop 24: Stop during operation allowed 25: DC braking at stop 26: Waiting for DC braking at stop 27: Stop upon fault 28: Motor parameter calculation 29: Switchover between speed control and torque control 30: Wait for cooling 31: Wait before operation 32: Wait for electromagnetic demagnetization 33: Establishment of electromagnetic demagnetization								
	Description: Displays the state machine that the inverter is in. Value description: 1: System initialization - The program is initializing and waiting for the control voltage to be established. When conditions are met, state 2 applies. 2: Power-on check - If items to be inspected before power-on are selected, wait for the bus voltage to be established before auto-inspection. After auto-inspection is done, the state 4 applies. The system directly enters state 4 if no items need to be inspected before power-on. 3: Fault - The system enters this state when a fault occurs. After the fault is cleared, the state 4 applies upon fault reset. 4: Switch-on inhibited - The state 5 applies when none of OFF2, OFF3, or STO is activated. If yes of them is activated, the system stays at this state. 5: Ready to switch on - The state 6 applies upon the rising edge of the operation command (OFF1). When the jog command is active, the state 6 also applies. If b5-00 is set to a value higher than 0, the state 18 applies. If b5-01 is set to a value higher than 0, the state 16 applies.								

	6: Pre-charging - The state 7 applies after the DC bus voltage is established. When [A6-00] is set to 0, and the bus voltage is not back to normal within 6s, F64-1 (Pre-charge failure) will be reported and the state 3 applies. When [A6-00] is set to 1 and the bus voltage is not back to normal after the time defined by [A6-01] elapses, F64-1 [Pre-charging failure] will be reported and the state 3 applies. 7: Ready to run - The state 9 applies after the "Operation allowed" signal is received. 8: Waiting for demagnetization - If the actual motor speed is higher than the zero speed threshold during the last pulse inhibition, the system stays in this state until the interval time is longer than the demagnetization time set by E1-13. The state 9 applies if the interval time starting from the moment of pulse inhibition is longer than the demagnetization time. 9: Pre-operation check - Auto-inspection is performed according to the selected item. If no item is selected, skip this state. Select state 10/11/15 depending on the startup mode. 10: Pre-excitation - A magnetic field is established for the asynchronous motor, after which the system enters state 12. 11: Speed tracking - The system searches for the current motor speed and then enters state 12. 12: Run - The system operates properly and can receive the speed or torque references. If a stop (OFF1) command is received, the state 13 applies. If a quick stop (OFF3) command is received, the state 14 applies. If the OFF2 or STO activation signal is received, the state 4 applies. 13: OFF1 stop - The IGBT is blocked when the speed is reduced to 0 within the deceleration time specified by the RFG. Then the system enters state 5. 14: OFF3 stop - The IGBT is blocked when the speed is reduced to 0 within the OFF3 stop time. Then the system enters state 4. 15: DC braking at start - DC braking is applied before start to ensure that the motor is braked to zero speed. The system enters state 12 when the braking time is reached. 16: Auto-inspection preparation - The system enters state 17 upon the rising edge of the operation (OFF1) command. 17: Auto-inspection - The system enters state 4 after auto-inspection is done. 18: Auto-tuning preparation - The system enters state 19 upon the rising edge of the operation (OFF1) command. 19: Auto-tuning - The system performs motor auto-tuning and then enters state 4. 20: Parameter recovery - The system restores parameters to default and then enters state 4. 21: Parameter download - The system downloads parameters in batches through the software tool and then enters state 4. 22: Jog - The system enters state 23 after the jog command is canceled. 23: Jog stop - After jog stop signal is received, the state 4 applies. After the jog command is recovered, the state 22 applies. 24: Stop during operation allowed - This state applies when the operation permission signal is canceled during operation, after which the state 7 applies. 25: DC braking at stop - The asynchronous motor is forced to stop. After the time is reached, the state 4 applies. 26: Waiting for DC braking at stop - When the motor decelerates to a speed lower than the threshold, the system enters state 25 after the specified time has elapsed. 27: Stop upon fault - The system enters this state if a fault is activated, and then decelerates to zero speed based on the fault level or stops directly, or enters the block state or state 3. 28: Motor parameter calculation 29: Speed torque control switchover 30: Waiting for cooling 31: Wait before operation 32: Wait for electromagnetic demagnetization 33: Establishment of electromagnetic demagnetization

	Note: It can be monitored by the current state machine (U8-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-01	RFG speed reference	35832	-21474836.48 rpm to +21474836.47 rpm	0.00	Signed 32	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the RFG speed reference of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-02	Target speed	35830	-21474836.48 rpm to +21474836.47 rpm	0.00	Signed 32	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the target speed of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-03	Actual motor speed	35828	-21474836.48 rpm to +21474836.47 rpm	0.00	Signed 32	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the actual speed of the current motor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-04	RFG frequency reference	35838	-2147483.648 Hz to +2147483.647 Hz	0.000	Signed 32	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the RFG frequency reference of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-05	Target frequency	35836	-2147483.648 Hz to +2147483.647 Hz	0.000	Signed 32	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the target frequency of the current inverter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-06	Actual motor frequency	35834	-2147483.648 Hz to +2147483.647 Hz	0.000	Signed 32	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the actual frequency of the current motor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-07	Output voltage	32771	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output voltage of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-08	Output current	32772	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output current of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-09	Output torque	32773	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output torque of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-10	Active power output	32774	-3276.8 kW to +3276.7 kW	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the active power output of the current inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-11	DC bus voltage	32775	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the current DC bus voltage of the inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-12	Current motor data group (MDS)	32894	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Motor 1 1: Motor 2 2: Motor 3 3: Motor 4								
	Description: Displays the motor data group currently selected by the inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-13	Current command channel (BDS)	32895	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Command channel 1 1: Command channel 2								
	Description: Displays the current command channel of the inverter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-14	Maximum temperature of power unit	32776	-32768°C t o +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the maximum temperature during operation of the power unit of the inverter. Note: The temperature (U5-07) can be monitored through the module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-15	Maximum temperature of power unit cavity	33398	-32768°C t o +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the maximum temperature inside the power unit during operation the inverter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-16	Error prompt type	34298	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: None
1: Switch-on inhibited due to OFF1/JOG/terminal start/stop command reset failure
2: Switch-on inhibited due to activation of OFF2
3: Switch-on inhibited due to activation of OFF3
4: Operation keeps in preparation because operation activation is prohibited
5: External fault 1 activated, H0.00 (reserved)
6: External fault 2 activated, H0.01 (reserved)
7: External alarm 1 activated, H0.02 (reserved)
8: External alarm 2 activated, H0.03 (reserved)
9: STO activated
10: DP bus data privilege is released but PZD1. check bit is not set to 1
11: Switch-on inhibited due to custom function block enable switchover
12: Switch-on inhibited due to activation of OFF2 by A5-01

Description:

Displays the errors that cause operation failure.

Value description:

0: None - Normal state

1: Switch-on inhibited due to OFF1/JOG/terminal start/stop command reset failure - Switch-on inhibited: The corresponding command of the current control channel is activated.

2: Switch-on inhibited due to activation of OFF2 - Switch-on inhibited: The corresponding command of the current control channel is activated.

3: Switch-on inhibited due to activation of OFF3 - The corresponding command of the current control channel is activated.

4: Operation keeps in preparation because operation activation is prohibited - Operation preparation: The corresponding command of the current control channel is activated.

5: External fault 1 activated, H0.00 (reserved)

6: External fault 2 activated, H0.01 (reserved)

7: External alarm 1 activated, H0.02 (reserved)

8: External alarm 2 activated, H0.03 (reserved)

9: STO activated - Check whether the STO related parameters are configured incorrectly and whether the input signal is active.

10: DP bus data privilege is released but PZD1. check bit is not set to 1 - Start/stop control source is bus adapter, but bit10 of the data PZD1 received by the adapter is not 1.

11: Switch-on inhibited due to custom function block enable switchover

12: Switch-on inhibited due to activation of OFF2 by A5-01

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-17	Exception info source	34299	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

							changed		time
	Value: 0: None 1: Set to always activated (Check parameters in group b.) 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 11: Bus adapter A.PZD1.0 12: Bus adapter A.PZD1.1 13: Bus adapter A.PZD1.2 14: Bus adapter A.PZD1.3 15: Bus adapter A.PZD1.8 16: Bus adapter A.PZD1.9 17: Bus adapter B.PZD1.0 18: Bus adapter B.PZD1.1 19: Bus adapter B.PZD1.2 20: Bus adapter B.PZD1.3 21: Bus adapter B.PZD1.8 22: Bus adapter B.PZD1.9 23: PC control bit activated 24: Check bit of PZD1 of bus adapter A 25: Check bit of PZD1 of bus adapter B 26: Enable state of custom function block changed and HCU failed to be powered on again 27: Three-phase braking setting (A5-00 = 0) 28: HINT not ready due to model parameter error for example 29: STO action signal activated Others: B connector								
	Description: Displays the current inverter error source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-18	24 V detection voltage at HCU control board terminal	34831	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the voltage of current 24 V power supply terminal of the HCU controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-19	15 V detection voltage inside HCU control board	34832	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the voltage of current 15 V power supply terminal of the HCU controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-20	Detected temperature of the HCU control board	36335	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

	Description: Displays the current HCU controller temperature.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A0-24	Output current (double word)	36810	-21474836.48 A to +21474836.47 A	0.00	Signed 32	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the output current of the inverter (displayed in double word).								

A1 Faults and alarms

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-00	Current fault code 1	32777	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current fault code 1. Note: You can obtain the fault code of current inverter through current fault code (U8-04).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-01	Sub-code of current fault code 1	32778	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current fault code 1. Note: You can obtain the sub-code of the current inverter fault through current fault sub-code (U8-34).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-02	Active fault code 2	32779	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current fault code 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-03	Sub-code of	32780	0-	0	Unsigned	1	Cannot be	General	Effective in

	current fault code 2		65535		16 bit		changed	user	real time
	Description: Displays the sub-code of current fault code 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-04	Current fault code 3	32781	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current fault code 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-05	Sub-code of current fault code 3	32782	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current fault code 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-06	Current fault code 4	32783	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current fault code 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-07	Sub-code of current fault code 4	32784	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current fault code 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-08	Current fault code 5	32785	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current fault code 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-09	Sub-code of current fault code 5	32786	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the sub-code of current fault code 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-10	Current fault code 6	32787	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current fault code 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-11	Sub-code of current fault code 6	32788	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current fault code 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-12	Current minor fault code 1	33795	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current minor fault code 1. Note: You can obtain the code of the current inverter minor fault through the current minor fault sub-code (U8-05).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-13	Sub-code of current minor fault 1	33796	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current minor fault 1. Note: You can obtain the sub-code of the current inverter minor fault through the current minor fault sub-code (U8-35).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-14	Current minor fault code 2	33797	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current minor fault code 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A1-15	Sub-code of current minor fault 2	33798	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current minor fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-16	Current minor fault code 3	33799	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current minor fault code 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-17	Sub-code of current minor fault 3	33800	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current minor fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-18	Current minor fault code 4	33801	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current minor fault code 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-19	Sub-code of current minor fault 4	33802	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current minor fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-20	Current minor fault code 5	33803	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current minor fault code 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-21	Sub-code of current minor	33804	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	fault 5								
	Description: Displays the sub-code of current minor fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-22	Current minor fault code 6	33805	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current minor fault code 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-23	Sub-code of current minor fault 6	33806	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current minor fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-24	Current alarm code 1	32789	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current alarm code 1. Note: You can obtain the alarm code of the current inverter through the current alarm code (U8-06).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-25	Sub-code of current alarm 1	32790	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current alarm 1. Note: You can obtain the sub-code of the current inverter through the current alarm code sub-code (U8-36).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-26	Current alarm code 2	32791	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current alarm code 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-27	Sub-code of current alarm 2	32792	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current alarm 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-28	Current alarm code 3	32793	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current alarm code 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-29	Sub-code of current alarm 3	32794	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current alarm 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-30	Current alarm code 4	32795	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current alarm code 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-31	Sub-code of current alarm 4	32796	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current alarm 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-32	Current alarm code 5	32797	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current alarm code 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A1-33	Sub-code of current alarm 5	32798	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current alarm 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-34	Current alarm code 6	32799	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays current alarm code 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A1-35	Sub-code of current alarm 6	32800	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of current alarm 6.								

A2 Drive information

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-00	Product type	32867	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Diode rectifier 1: Basic rectifier 2: Inverter 3: Regenerative rectifier 4: Three-phase braking 5: DC-DC								
	Description: Displays the product type of the current power unit.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-01	Rated power of the module	32868	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the rated power of the current power unit module.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A2-02	Module rated voltage	32869	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the rated voltage of the current power module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-03	Module rated current	32870	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the current rated current of the power module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-04	Total rated device power	34118	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the aggregate rated power of the paralleled modules.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-05	Total rated device current	34119	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the aggregate rated current of the paralleled modules.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-07	HCU software type	34017	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Multi-drive inverter 1: Basic rectifier 2: Active rectifier 3: Regenerative rectifier 4: Three-phase braking 5: DC-DC 6: Single-drive inverter 7: HE200 9999: Unknown								
	Description: Displays the current HCU software type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-08	HCU-MCU	32871	0.00-	0.00	Unsigned	0.01	Cannot be	General	Effective

	function software version		655.35		16 bit		changed	user	in real time
	Description: Displays the HCU software version.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-09	Sub-version of HCU-MCU function software	34121	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-version of current HCU function software.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-10	HCU-MCU performance software version	32872	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU performance software version.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-11	HCU-MCU performance software sub-version	34120	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU software performance software subversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-12	Parameter version	34053	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the HCU software parameter version.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-13	Function diagram version	36808	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the function diagram version.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A2-14	Function diagram sub-version	36809	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the function diagram sub-version.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-16	HCU-FPGA software version	32873	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays current HCU-FPGA software version.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-18	HINT Type	33984	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Diode rectifier 1: Basic rectifier 2: Active rectifier 3: Regenerative rectifier 4: Multi-drive inverter 5: DC-DC 6: Three-phase braking 7: Shore power 8: Single-drive 9: Inverter 100: Offline 101: Inconsistent type 102: Inconsistent software version 103: Unknown type								
	Description: Displays the current power unit type.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-19	HINT software version	32874	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the current HINT software version.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-22	HPCU software version	32875	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the current HPCU software version.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A2-24	Type of module in expansion slot 1_1	32876	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 34: Encoder detection module PG-30 35: Encoder detection module PG-40 36: Encoder detection module PG-50 38: HSTM-10 module 48: Synchronous voltage measurement module HSVM-10 49: Synchronous voltage measurement module HSVM-20 64: HINT module (HE200 rectifier) 96: HOFR module 112: PROFIBUS-DP module 113: CANopen module 114: Reserved 115: Modbus-RTU module 116: Modbus TCP module 117: PROFINET IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module 124: IBA module 125: Custom communication module 126: EtherNet/IP module								
	Description: Displays external module type in current expansion slot 1-1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-25	Software version of expansion slot 1_1	32877	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the software version of the current expansion slot 1-1 module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-26	Type of module in expansion slot 1_2	32878	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 34: Encoder detection module PG-30 35: Encoder detection module PG-40 36: Encoder detection module 49: Synchronous voltage measurement module HSVM-20 64: HINT module (HE200 rectifier) 96: HOFR module 112: PROFIBUS-DP module 113: CANopen module 114: Reserved 115: Modbus-RTU module 116: Modbus TCP module 117: PROFINET IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module 124: IBA module 125: Custom communication module 126: EtherNet/IP module								

	PG-50 38： HSTM-10 module 48： Synchronous voltage measurement module HSVM-10
	Description： Displays the external module type in current expansion slot 1-2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-27	Software version of expansion slot 1_2	32879	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description： Displays the software version of the current expansion slot 1-2 module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-28	Type of module in expansion slot 1_3	32880	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0： No expansion card 17： I/O module HIO-10 32： Encoder detection module PG-10 34： Encoder detection module PG-30 35： Encoder detection module PG-40 36： Encoder detection module PG-50 38： HSTM-10 module 48： Synchronous voltage measurement module HSVM-10 49： Synchronous voltage measurement module HSVM-20 64： HINT module (HE200 rectifier) 96： HOFR module 112： PROFIBUS-DP module 113： CANopen module 114： Reserved 115： Modbus-RTU module 116： Modbus TCP module 117： PROFINET IO module 118： EtherCAT module 121： EtherNet module 122： DeviceNet module 124： IBA module 125： Custom communication module 126： EtherNet/IP module								
	Description： Displays the external module type in current expansion slot 1-3. Value description: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 34: Encoder detection module PG-30 35: Encoder detection module PG-40 36: Encoder detection module PG-50								

	38: HSTM-10 module 48: Synchronous voltage measurement module HSVM-10 49: Synchronous voltage measurement module HSVM-20 64: HINT module (HE200 rectifier) 96: HOFR module 112: PROFIBUS-DP module 113: CANopen module 114: Reserved 115: Modbus-RTU module 116: Modbus TCP module 117: PROFINET IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module 124: IBA module 125: Custom communication module 126: EtherNet/IP module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-29	Software version of expansion slot 1_3	32881	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the software version of the current expansion slot 1-3 module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-30	Type of module in expansion slot 2_1	32882	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 34: Encoder detection module PG-30 35: Encoder detection module PG-40 36: Encoder detection module PG-50 38: HSTM-10 module 48: Synchronous voltage measurement module HSVM-10 49: Synchronous voltage measurement module HSVM-20 64: HINT module (HE200 rectifier) 96: HOFR module 112: PROFIBUS-DP module 113: CANopen module 114: Reserved 115: Modbus-RTU module 116: Modbus TCP module 117: PROFINET IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module 124: IBA module 125: Custom communication module 126: EtherNet/IP module								

	measurement module HSVM-10
	Description: Displays the external module type in current expansion slot 2-1. Value description: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 34: Encoder detection module PG-30 35: Encoder detection module PG-40 36: Encoder detection module PG-50 38: HSTM-10 module 48: Synchronous voltage measurement module HSVM-10 49: Synchronous voltage measurement module HSVM-20 64: HINT module (HE200 rectifier) 96: HOFR module 112: PROFIBUS-DP module 113: CANopen module 114: Reserved 115: Modbus-RTU module 116: Modbus TCP module 117: PROFINET IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module 124: IBA module 125: Custom communication module 126: EtherNet/IP module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-31	Software version of expansion slot 2_1	32883	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the software version of the current expansion slot 2-1 module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-32	Type of module in expansion slot 2_2	32884	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: No expansion card 49: Synchronous voltage 117: PROFINET IO module								

	17：I/O module HIO-10 32：Encoder detection module PG-10 34：Encoder detection module PG-30 35：Encoder detection module PG-40 36：Encoder detection module PG-50 38：HSTM-10 module 48：Synchronous voltage measurement module HSVM-10 49：Synchronous voltage measurement module HSVM-20 64：HINT module (HE200 rectifier) 96：HOFR module 112：PROFIBUS-DP module 113：CANopen module 114：Reserved 115：Modbus-RTU module 116：Modbus TCP module 117：PROFINET IO module 118：EtherCAT module 121：EtherNet module 122：DeviceNet module 124：IBA module 125：Custom communication module 126：EtherNet/IP module								
	Description： Displays the external module type in current expansion slot 2-2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-33	Software version of expansion slot 2_2	32885	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description： Displays the software version of the current expansion slot 2-2 module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-34	Type of module in expansion slot 2_3	32886	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：No expansion card 17：I/O module HIO-10 32：Encoder detection module PG-10 34：Encoder detection module PG-30 35：Encoder detection module PG-40 36：Encoder detection module PG-50 38：HSTM-10 module 48：Synchronous voltage measurement module HSVM-10 49：Synchronous voltage measurement module HSVM-20 64：HINT module (HE200 rectifier) 96：HOFR module 112：PROFIBUS-DP module 113：CANopen module 114：Reserved 115：Modbus-RTU module 116：Modbus TCP module 117：PROFINET IO module 118：EtherCAT module 121：EtherNet module 122：DeviceNet module 124：IBA module 125：Custom communication module 126：EtherNet/IP module								
	Description： Displays the external module type in current expansion slot 2-3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-35	Software version of expansion slot 2_3	32887	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the software version of the current expansion slot 2-3 module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-36	Type of module in expansion slot 3_1	32888	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 34: Encoder detection module PG-30 35: Encoder detection module PG-40 36: Encoder detection module PG-50 38: HSTM-10 module 48: Synchronous voltage measurement module HSVM-10 49: Synchronous voltage measurement module HSVM-20 64: HINT module (HE200 rectifier) 96: HOFR module 112: PROFIBUS-DP module 113: CANopen module 114: Reserved 115: Modbus-RTU module 116: Modbus TCP module 117: PROFINET IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module 124: IBA module 125: Custom communication module 126: EtherNet/IP module								
	Description: Displays the external module type in current expansion slot 3-1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-37	Software version of expansion slot 3_1	32889	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the software version of the current expansion slot 3-1 module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-40	Available HCU-FPGA functions	34826	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the function flag word of the HCU-FPGA software.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-41	Enabled HCU-FPGA functions	34827	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the function enable flag word of current HCU-FPGA.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-42	Available HINT functions	34828	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the function flag word of the current power unit software.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-43	Enabled HINT functions	34829	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the flag word for enabled functions of current power unit software.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-44	Current year	34836	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current year.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-45	Current date	34837	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current date. Note: The display format is (month/day).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-46	Current time	34838	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real

									time
	Description: Displays the current time. Note: The display format is (h: min).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-47	Year of power-on	34839	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current power-on time (in year) of the HCU.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-48	Date of power-on	34840	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current power-on time (in date) of the HCU. Note: The display format is (month/day).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-49	Moment of power-on	34841	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the moment when the HCU is powered on. Note: The display format is (h: min).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-53	Inverter software type	33085	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Standard software 1: Software for cranes 2: Grid synchronization software								

	3：Soft pump software
	Description： Displays the inverter software type.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-54	Cabinet status display	33084	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：Standard module 1：Inovance 690 V single-drive cabinet								
	Description： Displays the current cabinet status.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-66	HCU-SN serial number value 1	6669	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays the current HCU-SN serial number value 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-67	HCU-SN serial number value 2	6670	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays the current HCU-SN serial number value 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-68	HCU-SN serial number value 3	6671	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays the current HCU-SN serial number value 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-69	HCU-SN serial number value 4	6672	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays the current HCU-SN serial number value 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-70	HCU-SN serial number value 5	6673	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-71	HCU-SN serial number value 6	6674	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-72	HCU-SN serial number value 7	6675	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-73	HCU-SN serial number value 8	6676	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-74	HCU-SN serial number value 9	6677	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 9.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-75	HCU-SN serial number value 10	6678	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the current HCU-SN serial number value 10.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-76	HCU-SN serial number value 11	6679	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 11.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-77	HCU-SN serial number value 12	6680	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 12.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-78	HCU-SN serial number value 13	6681	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 13.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-79	HCU-SN serial number value 14	6682	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 14.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-80	HCU-SN serial number value 15	6683	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current HCU-SN serial number value 15.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-81	HCU-SN serial number value 16	6684	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the current HCU-SN serial number value 16.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-82	HINT-SN unit selection	36337	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Stand-alone module 1: Parallel module 01 2: Parallel module 02 3: Parallel module 03 4: Parallel module 04 5: Parallel module 05 6: Parallel module 06 7: Parallel module 07 8: Parallel module 08 9: Parallel module 09 10: Parallel module 10								
	Description: Defines the HINT-SN unit to be operated.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-83	HINT-SN read command	36339	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: No operation 1: Read								
	Description: Defines the current HINT-SN read command.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-84	HINT-SN serial number value 1	36340	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 1 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-85	HINT-SN serial number value 2	36341	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 2 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-86	HINT-SN serial	36342	0-65535	0	Unsigned	1	Cannot be	General	Effective

	number value 3				16 bit		changed	user	in real time
	Description: Displays the SN serial number value 3 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-87	HINT-SN serial number value 4	36343	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 4 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-88	HINT-SN serial number value 5	36344	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 5 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-89	HINT-SN serial number value 6	36345	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 6 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-90	HINT-SN serial number value 7	36346	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 7 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-91	HINT-SN serial number value 8	36347	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 8 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A2-92	HINT-SN serial number value 9	36348	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 9 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-93	HINT-SN serial number value 10	36349	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 10 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-94	HINT-SN serial number value 11	36350	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 11 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-95	HINT-SN serial number value 12	36351	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 12 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-96	HINT-SN serial number value 13	36352	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 13 of the HINT unit that being read currently.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-97	HINT-SN serial number value 14	36353	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 14 of the HINT unit that being read currently.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A2-98	HINT-SN serial number value 15	36354	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 15 of the HINT unit that being read currently.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A2-99	HINT-SN serial number value 16	36355	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the SN serial number value 16 of the HINT unit that being read currently.								

A4 Power unit control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-00	Maximum allowable carrier frequency	47	1.20-12.00	4.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the maximum allowable carrier frequency of the current inverter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-01	Actual effective carrier frequency	48	1.20-12.00	1.25	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the actual carrier frequency of the current inverter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-02	Carrier frequency setting	49	1.20-8.00	1.25	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the carrier frequency for operation of the inverter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A4-06	DPWM switchover frequency	53	0.0-300.0	0.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the frequency for switching to DPWM modulation mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-07	PWM modulation mode	54	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Without overmodulation 1: With overmodulation								
	Description: Defines whether overmodulation is enabled. Note: Enabling the overmodulation function can enhance the voltage output capacity and effectively improve the load carrying capacity of the motor in the flux weakening region. However, this can also increase the output current distortion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-08	Random PWM	55	0-10	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the random PWM. Note: The random PWM can turn the sharp electromagnetic noise of the motor caused by the carrier frequency into a relatively soft "rustling" sound. The setpoint 0 indicates the random PWM function is disabled. The higher the setpoint, the better the noise will be improved.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-09	Dead zone compensation enable	56	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether the dead zone compensation function is enabled or not.								

	Note: Dead zone compensation can compensate the voltage loss caused by the dead zone time of the bridge arm and alleviate the current waveform distortion at high carrier frequency and low speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-10	Fast current limit	57	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines the fast current limit.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-11	Pre-charge resistor detection enable	58	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Detected at any time 2: Detected when the bus is not in the undervoltage state								
	Description: Used to enable pre-charge resistor detection.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-12	Input phase loss detection enable	59	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether input phase loss detection is enabled. Note: If input phase loss is detected, the input phase loss fault (U3-53) is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-15	DC bus overvoltage threshold	60	80-100	100	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real

									time
	Description: Defines the DC bus overvoltage threshold. Note: When the DC bus voltage exceeds this value, the DC voltage error will be triggered. The overvoltage fault (U3-51) can be used to set the monitoring fault.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-17	Tuning coefficient of undervoltage reference value	1844	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 100% Others: K connector								
	Description: Used to adjust the software undervoltage threshold. A4-18 is the product of the coefficient and A4-16.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-18	Active undervoltage value adjusted	33760	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the active software undervoltage threshold after A4-18 [Software undervoltage threshold tuning coefficient] is set.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-23	Output phase loss detection enable of parallel module	2864	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable phase loss detection of paralleled modules. Note: If the U/V/phase W current is significantly lower than the other two phases in multiple current cycles during operation of paralleled modules, F92-2 (Phase U loss of paralleled modules)/F92-3 (Phase V loss of paralleled modules)/F92-3 (Phase W loss of paralleled modules) is triggered.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A4-24	Bus voltage detection enable of parallel module	2868	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether bus voltage detection of paralleled modules is enabled. Note: If the bus voltage sampling value of the paralleled module is abnormal, F92-5 (Bus voltage detection error of paralleled modules) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-25	Parallel module current imbalance detection enable	2910	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether the current imbalance detection of paralleled modules is enabled. Note: If current imbalance of the paralleled modules is detected, A99-1/A99-2/A99-3 (Current imbalance of paralleled modules) is reported. You can view the current balance ratio of the paralleled modules through U17-27 (Current balance ratio).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-27	Module pre-overtemperature threshold	2913	0-60	5	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the module pre-overtemperature threshold. Note: When the U/V/phase W temperature of the module is ⩾ (overtemperature threshold - pre-overtemperature threshold), the U/V/W module pre-overtemperature alarm A172-1/A172-2/A172-3 is triggered. The fault can be monitored through U3-58 (Module overtemperature).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-30	Module fan	3211	Refer to	2	Unsigned	1	Real time	General	Effective

	operation control selection		"Value"		16 bit		changes	user	in real time
	Value: 0: Run at full speed during operation 1: Run at full speed after power-on 2: Speed adjusted automatically during operation								
	Description: Defines the operation mode of the module fan. . Value description: 0: Run at full speed during operation - The fan runs at full speed after the system is operating. 1: Run at full speed after power-on - The fan runs at full speed after power-on. 2: Speed adjusted automatically during operation - The fan speed can be adjusted automatically after the system is operating. Note: Fan speed regulation is available only for certain models.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-32	Overmodulation depth	4218	100-110	103	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the overmodulation depth. Note: The higher the overmodulation depth, the greater the voltage output capacity and the stronger the load-carrying capacity in the flux weakening zone of the motor. However, the output current distortion will also increase.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-36	Carrier frequency adjusted with speed	5714	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether the carrier frequency changes the speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-38	Lower limit of carrier frequency	5716	1.25-10.00	3.20	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real

	adjustment								time
	Description: Defines the minimum value that the carrier frequency can be adjusted to when A4-36 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-40	Upper limit of carrier frequency adjustment	5718	4.00-12.00	8.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum value that the carrier frequency can be adjusted to when A4-36 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-41	Carrier frequency setting	5719	10.0-24.0	12.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the carrier frequency ratio.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-42	Effective value of maximum carrier frequency	35988	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the effective carrier frequency of the drive. Note: The actual carrier frequency is affected by the carrier frequency that adjusted automatically with temperature/synchronous frequency and the random PWM.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-43	Maximum output frequency	35990	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: The maximum frequency output of the system is affected by d0-06, A4-36, A4-40, and A4-41.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-44	Carrier frequency setting	35989	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the effective carrier frequency of the drive.								

	Note: The actual carrier frequency is affected by the carrier frequency that adjusted automatically with temperature/synchronous frequency and the random PWM.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-48	Actual effective value of software overvoltage threshold	36334	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the actual effective value of software overvoltage threshold.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-59	Quick block protection enable in parallel mode	6385	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: When fast blocking protection is enabled, the system can stop quickly upon IGBT fault.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A4-60	Fast blocking protection in parallel mode	36909	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Displays the fast blocking protection state in parallel mode.								

A6 Rectifier control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A6-00	Rectification control	69	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value： 0： Disable 1： Enable								
	Description： Defines whether rectifier control is enabled. Value description: 0: Disable - Rectifier control is inactive. 1: Enable - Rectifier control is active. The pre-drive (S6 state machine) is done only when the bus voltage is normal and A6-02 [Additional condition for pre-drive completion] keeps active after the time defined by A6-03 [Waiting time for additional condition of pre-drive completion] elapses. Note: This function is mainly used to match the pre-charge time of the external pre-charge power supply to prevent operation before pre-charging is done.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A6-01	Start time of rectifier control	70	0.0-100.0	10.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description： Defines the start time of rectifier control. Note: When the state machine reaches the S6 pre-charge state during start, and the bus voltage is detected to be too low for a certain period of time, the state machine reports the pre-charge fault F64-1. When A6-00 (Rectifier control) is disabled, the pre-charge time is 6s and cannot be changed. When A6-00 is enabled, the pre-charge time depends on the start time of the rectifier control (A6-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A6-02	Additional condition of pre-drive completion	1670	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid 1： Valid Others： B connector								
	Description： Used to set the additional condition of pre-drive completion when rectifier control is enabled. Note:								

	When A6-00 is set to 1, the bus voltage remains normal and the additional condition remains active, the pre-drive (S6 state machine) is done after the time defined by A6-03 [Waiting time for additional condition of pre-drive completion] elapses.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A6-03	Waiting time for additional condition of pre-drive completion	1671	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

Description:
Used to set the effective detection time of pre-drive completion when rectifier control is enabled.

Note:
When A6-00 is set to 1, the bus voltage remains normal and the additional condition for pre-drive completion (A6-02) remains active, the pre-drive (S6 state machine) is done only after the time set by this parameter elapses.

A8 Environment setting

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-00	Parameter reset mode	33787	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Invalid
1: Some parameters restored to default
2: All parameters restored to default
3: Fault log cleared
4: Black box log cleared
5: Log cleared

Description:
Used to set the parameter reset mode. Confirm the operation through A8-01 [Parameter reset mode].

0: Invalid
1: Some parameters restored to default - Some parameters are restored to default. Motor parameters in group d keeps unchanged.
2: All parameters restored to default - All parameters are restored to default.
3: Fault log cleared - Internal fault log are cleared.
4: Black box log cleared - Clear the black box log recorded internally.
5: Log cleared - Clear the log recorded internally.

Note:

	After the parameter operation is done or the parameter operation is not performed for a long time, the parameter will be restored to 0 automatically.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-01	Parameter reset	33788	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Cancel 1: OK								
	Description: Defines whether to perform the parameter operation selected by A8-00 [Parameter reset mode]. Value description: 0: Cancel - No parameter operation is performed. 1: OK - The parameter operation selected by A8-00 is triggered once upon the rising edge.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-02	Parameter access level	34064	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Standard parameter 1: Expansion parameter 2: Expert parameter 3: Maintenance parameter								
	Description: Defines the parameter access level.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-03	Manufacturer password	78	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the manufacturer password.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-05	Parameter backup function selection	34236	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: None 1: Saved to SD card 2: Restored from SD card 3: Parameter check								
	Description: Used to select the parameter backup function. You can save all parameter values to the SD card or restore parameters backed up from the SD card to the HCU. After selection, you need to confirm it through A8-06 [Parameter backup function confirmation]. Value description: 0: None 1: Saved to SD card - The internal parameters of HCU is saved in SD card. When parameters are backed up successfully, the state 2 "Parameters saved successfully" can be read in A8-07. 2: Restored from SD card - Overwrite the current HCU parameters with the parameters backed up from the SD card. After parameters are restored, the state 5 "Parameters are restored" can be read in A8-07. If not, the backup file may be not in the SD card or the SD card is being used by other processes. 3: Parameter check - The program verifies parameters backed up in the SD card and current parameters in the HCU. If parameters are consistent, the state 9 "Parameters are consistent" can be read in A8-07. Otherwise, the state 10 "Parameters are inconsistent" can be read, indicating that the backup parameters in the SD card are different from those in the HCU. Note: Only one parameter file can be backed up. Data that backed up later will override the previous backup record. After parameter backup is completed or no parameter backup function is not performed for a long time, the parameter will be automatically restored to 0. The backup status can be viewed through A8-07 (Parameter backup status).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-06	Parameter backup function confirmation	34238	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Cancel								

	1：OK
	Description： Defines whether to execute the parameter backup function defined by A8-05 [Parameter backup function selection]. Value description: 0: Cancel - Parameter backup is not performed. 1: OK - The parameter backup function defined by A8-05 is executed once upon the rising edge. Note: After parameter operation is completed or the parameter backup function is not performed for a long time, the parameter is automatically restored to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-07	Parameter backup status	34237	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value：		
0：None	4：Restoring	8：Parameter file error
1：Saving	5：Restoring completed	9：Check succeeded
2：Saving completed	6：Restoring failed	10：Check failed
3：Saving failed	7：Checking	11：SD card is busy

Description： Displays the status of the current parameter backup function. Note: When a backup file exists in the internal memory, the parameter backup status is 1 "Backup parameter file exists", otherwise it is 0 "No parameter file exists".

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-08	Inconsistent parameter address	34844	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Description： After A8-05 [Parameter backup function selection] performs parameter check, if A8-07 [Parameter backup status] displays 10 "Parameters inconsistent", A8-08 displays the address of the parameter that is inconsistent, and A8-09 displays the value of the parameter that is inconsistent.

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A8-09	Parameter value in the file	34845	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: See A8-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-13	Lifetime statistics reset selection	37442	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: None 1: Reset the number of relay (RO1) actions 2: Reset the number of relay (RO2) actions 3: Reset the number of relay (RO3) actions 4: Reset the number of all the relay (RO1/RO2/RO3) actions 100: Reset the lifetime statistics of all devices								
	Description: Used to select the reset mode. Value description: 0: None 1: Reset the number of relay (RO1) actions - L18-04 is cleared. 2: Reset the number of relay (RO2) actions - L18-10 is cleared. 3: Reset the number of relay (RO3) actions - L18-16 is cleared. 4: Reset the number of all the relay (RO1/RO2/RO3) actions - L18-04/L18-10/L18-16 are cleared. 100: Reset the lifetime statistics of all devices								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-14	Reset the lifetime statistics of devices	37443	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Cancel 1: OK								
	Description: Defines whether to execute A8-13 [Reset lifetime statistics of the device].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-15	Custom function block	3210	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enable custom function block. Note: For individual process parameters and custom function blocks, you need to enable A8-15 and define the execution sequence before activating the module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-17	Time statistics reset selection	34842	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: None 1: Reset current duration statistics 2: Reset cumulative duration statistics 3: Clear the power output upon current power-on 4: Clear the cumulative power output 5: Reset all duration statistics								
	Description: Defines the time statistics reset mode. Value description: 0: None 1: Reset current duration statistics - U9-94 [Current power-on duration] and U9-95 [Current operating duration] are cleared. 2: Reset cumulative duration statistics - U9-96 [Cumulative power-on duration] and U9-97 [Cumulative operating duration] are cleared. 3: Clear the power output upon current power-on - U9-98 [Power output upon current power-on] is cleared. 4: Clear the cumulative power output - U9-99 [Cumulative power output] is cleared. 5: Reset all duration statistics - U9-94 to U9-97 are cleared. Note: After the time record is cleared, the parameter automatically reverts to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-18	Reset time statistics	34843	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Cancel 1: OK								
	Description: Defines whether to execute A8-17 [Time statistics reset selection].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-22	Simulation mode	34235	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to select whether to run the simulation mode. Value description: 0: Inhibited - Normal operation The value reverts to 0 each time after power-on. 1: Allow - Start the simulation mode. If the conditions are not met, the system automatically reverts to 0. Note: 1. When A8-22 is set to 1, HCU-50S generates a virtual bus voltage and alarm 46-3, indicating that the user is currently in the simulation mode. 2. During simulation, ensure that the actual bus voltage is lower than 48 V. Once the bus voltage exceeds 48 V, fault 5-3 is triggered and A8-22 is cleared. If the bus voltage is higher than 48 V during non-simulation operation, A8-22 cannot be set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-23	Load torque for simulation	33081	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the load torque for simulation. Note: During simulation, a virtual load torque can be generated.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-25	Password operation mode of parameter lock	36358	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: No operation
1: Check the password
2: Cancel the password
3: Set the password

Description:

Defines the password operation mode of parameter lock.

Value description:

0: No operation

1: Check the password - Check whether the password is correct.

2: Cancel the password - Cancel password setting.

3: Set the password - Set the parameter lock password.

Note:

1. By default, the HCU controller is not set with the parameter lock password. All users can operate on A8-30. If you set a parameter lock password, only users with the password can set A8-30.
2. After A8-25 is selected, if no operation occurs within 60s, the parameter lock password status (A8-28) is displayed as 22 "Input password timeout". In this case, you need to reset the operation mode.
3. You can view the status of the password for parameter lock through A8-28.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-26	Entering password upon parameter lock	36359	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:

Used to enter the custom password for parameter lock.

Note:

Enter the password in A8-26, then A8-28 displays "21: Wait for entering password again". In this case, enter the password

	again through A8-27.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-27	Re-enter the password	36360	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:

Used to enter the custom password for parameter lock again.

Note:

Enter the password again in A8-27. The password must be the same as that entered in A8-26. Otherwise, the password setting can fail. After the password setting fails, set A8-25 to 3 again. After "28: Password set successfully" is displayed in A8-28, the password for parameter is set successfully.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-28	Password status display upon parameter lock	36361	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: Password not set
1: Password is set
20: Wait for the password to be entered
21: Wait for the password to be entered again
22: Attempt to enter password failed
23: Password check failed
24: Password check succeeded
25: Attempt to cancel password failed
26: Password canceled successfully
27: Attempt to set password failed
28: Password set successfully

Description:

Displays the password status upon parameter lock.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-29	Function status display upon parameter lock	36362	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: A8-30 cannot be set by the user.
1: A8-30 can be set by the user.

Description:

	Displays current parameter lock status.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-30	Parameter lock	36363	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inactive 1: Active								
	Description: Defines whether to enable parameter lock function. Note: 1. The purpose of parameter lock is to prevent the parameter of the inverter from being modified by mistake during parameter viewing or to prevent unauthorized persons from modifying the parameters of the inverter. 2. If a parameter lock password is set, only users with the password are allowed to set A8-30. Set A8-25 as the verification password. After the verification password is entered successfully, you can change A8-30 within 60s. 3. Set A8-30 (Password lock function enable) to 1, which allows you to view parameters only, preventing incorrect modification of parameters.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-31	Parameter settings after parameter lock	6456	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	Device name	0: Settable 1: Non-settable
bit1-	Parameter written through Adapter A mailbox data	0: Yes 1: No
bit2-	Parameter written through Adapter B mailbox data	0: Yes 1: No
bit3	Reserved	0: Settable 1: Non-settable
bit4-	Reserved	0: Settable 1: Non-settable

bit5-	Reserved	0: Settable 1: Non-settable
bit6-	Reserved	0: Settable 1: Non-settable
bit7-	Reserved	0: Settable 1: Non-settable
bit8-	Reserved	0: Settable 1: Non-settable
bit9-	Reserved	0: Settable 1: Non-settable
bit10-	Reserved	0: Settable 1: Non-settable
bit11-	Reserved	0: Settable 1: Non-settable
bit12-	Reserved	0: Settable 1: Non-settable
bit13-	Reserved	0: Settable 1: Non-settable
bit14-	Reserved	0: Settable 1: Non-settable
bit15-	Reserved	0: Settable 1: Non-settable

Description：

Defines the parameter setting after parameter lock.

Value description:

bit0: Device name - The setpoint 0 indicates that the device name can be modified. The setpoint 1 indicates that the device name cannot be modified.

bit1: Parameter written through Adapter A mailbox data - The setpoint 0 indicates the parameter can be modified through adapter A mailbox data. The setpoint 1 indicates the parameter cannot be modified through adapter A mailbox data.

bit2: Parameter written through Adapter B mailbox data - The setpoint 0 indicates the parameter can be modified through adapter B mailbox data. The setpoint 1 indicates the parameter cannot be modified through adapter B mailbox data.

bit3-: Reserved

0: Settable

1: Non-settable

bit4-: Reserved

0: Settable

1: Non-settable

bit5-: Reserved

0: Settable

1: Non-settable

	bit6-: Reserved 0: Settable 1: Non-settable bit7-: Reserved 0: Settable 1: Non-settable bit8-: Reserved 0: Settable 1: Non-settable bit9-: Reserved 0: Settable 1: Non-settable Bit10-: Reserved 0: Settable 1: Non-settable Bit11-: Reserved 0: Settable 1: Non-settable Bit12-: Reserved 0: Settable 1: Non-settable Bit13-: Reserved 0: Settable 1: Non-settable Bit14-: Reserved 0: Settable 1: Non-settable Bit15-: Reserved 0: Settable 1: Non-settable Note: When the parameter lock function is enabled, parameters can be written through the mailbox data of adapter A and adapter B by default. You can write the parameter through Modbus communication or PROFIBUS-DP communication. If you do not need the host controller to change the parameters of the inverter, you can set them by setting the bit of A8-31 after the parameter is locked.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-32	Designated unlocked parameter address 1	6803	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the designated unlocked parameter address 1. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-33	Designated unlocked parameter address 2	6804	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 2. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-34	Designated unlocked parameter address 3	6805	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 3. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-35	Designated unlocked parameter	6806	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	address 4								
	Description: Defines the designated unlocked parameter address 4. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-36	Designated unlocked parameter address 5	6807	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 5. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-37	Designated unlocked parameter address 6	6808	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 6. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-38	Designated unlocked	6809	0-65535	0	Unsigned	1	Real time	General	Effective in real

	parameter address 7				16 bit		changes	user	time
	Description: Defines the designated unlocked parameter address 7. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-39	Designated unlocked parameter address 8	6810	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 8. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-40	Designated unlocked parameter address 9	6811	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 9. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A8-41	Designated unlocked parameter address 10	6812	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the designated unlocked parameter address 10. Note: Use A8-32 to A8-41 to modify parameters as needed after the parameter lock function is enabled. In that case, a total of 10 parameters can be assigned. You can set the designated parameter communication address through A8-32 to A8-41. See the parameter communication addresses in the user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-42	Application macro selection	34036	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: No operation 1: High dynamic response configuration 2: Wind turbine/Water pump 3: Load with large inertia 4: Electromagnetic coil								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-43	Application macro confirmation	34037	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Cancel 1: OK								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A8-44	Active application macro	7450	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Invalid 1: High dynamic response configuration 3: Load with large inertia 4: Electromagnetic coil								

	2：Wind turbine/Water pump

A9 Data group selection

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A9-00	Command channel source	80	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Command channel 1　4：DI3　8：DIL 1：Command channel 2　5：DI4　9：HDI1 2：DI1　6：DI5　10：HDI2 3：DI2　7：DI6　Others：B connector								
	Description： Defines the command channel source. Note: 1. The HCU-50S/51S has two groups of command channels, also referred to as channels. Each group of channels includes a corresponding control channel and a corresponding group of setpoint channel. 2. The control channel enables the setting of control commands of the drive, allowing start/stop and other related operations on the drive. Groups b0 and b1 are for channel 1 control setting. Groups b2 and b3 are for channel 2 control setting. Control setting includes start/stop control word setting and other control word setting. 3. The setpoint channel enables the setting of motor speed and torque references, which can change the motor operating state. Groups C0 and C1 correspond to the setpoint of channel 1. Groups C2 and C3 correspond to the setpoint of channel 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A9-02	Source of motor data group selection 0	81	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：0　4：DI3　8：DIL 1：1　5：DI4　9：HDI1 2：DI1　6：DI5　10：HDI2 3：DI2　7：DI6　Others：B connector								
	Description： Defines the source for motor data group selection 0. Note:								

	1. The HCU-50S/51S control module can save up to four motor data groups, with each group containing motor parameters (parameters in group d) and the corresponding motor control parameters (parameters in group E). 2. You can switch the active motor data group through parameters A9-02 and A9-03. Motor data groups can be switched only in the stop state. Motor data groups cannot be switched during operation.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A9-03	Source of motor data group selection 1	82	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source for motor data group selection 1. Note: 1. The HCU-50S/51S control module can save up to four motor data groups, with each group containing motor parameters (parameters in group d) and the corresponding motor control parameters (parameters in group E). 2. You can switch the active motor data group through parameters A9-02 and A9-03. Motor data groups can be switched only in the stop state. Motor data groups cannot be switched during operation.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A9-04	Source of process parameter group selection 0	4801	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of process parameter group selection 0. Note: The HCU-50S/51S control module can save up to four process parameter groups, with each group containing process setting parameter group and process controller parameter group. A9-04 and A9-05 can be used to switch between active process setting parameter group and process controller parameter group.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A9-05	Source of process parameter group selection 1	4802	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of process parameter group selection 1. The HCU-50S/51S control module can save up to four process parameter groups, with each group containing process setting parameter group and process controller parameter group. A9-04 and A9-05 can be used to switch between active process setting parameter group and process controller parameter group.								

A10 SOP-20-880/Relay communication

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-00	SOP-20-880 control permission	84	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Allow Others: B connector								
	Description: Defines whether SOP-20-880 control is allowed. Value description: 0: Disable - SOP-20-880 control is not allowed. 1: Allow - You can switch to the operating panel control by pressing the Loc/Rem key of SOP-20-880. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-01	SOP-20-880 control speed reference selection	85	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value： 0： Motorized potentiometer 1： Speed reference channel Others： B connector
	Description： Defines the SOP-20-880 control speed reference. Value description: 0: Motorized potentiometer - Speed reference is controlled by the output of motorized potentiometer in group C4. The command for increasing or decreasing the motorized potentiometer comes from the up and down keys of SOP-20-880. 1: Speed reference channel - The speed reference is still derived from the speed reference of the setpoint channel. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-03	SOP-20-880/Relay communication address	88	1-127	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the station number of the controller. Note: When multiple devices are cascaded into the same network, ensure that the station numbers of each device are different. When programming the software, ensure that the set station numbers are consistent with the station numbers of the inverter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-04	SOP-20-880/Relay communication rate	89	Refer to "Value"	3	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： 115200 bps 1： 1 Mbps 2： 2 Mbps 3： 4 Mbps								
	Description： Defines the baud rate of the controller. Note: When multiple devices are cascaded in the same network, ensure that the baud rate of each device is consistent. The higher the baud rate, the faster the data transmission is. Note that the anti-interference capability during long-line communication will be degraded.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A10-05	SOP-20-880 open circuit detection	34195	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Enable 1： Disable								
	Description： Used to set SOP-20-880 disconnection detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-06	SOP-20-880 open circuit detection time	6404	0.5-6000.0	3.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the SOP-20-880 open circuit detection time. This parameter is active when A10-05 [SOP-20-880 open circuit detection] is enabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-07	Start/Stop control by SOP-20-880	3187	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： SOP-20-880 active 1： Control reference channel Others： B connector								
	Description： Used to set the start/stop control by SOP-20-880. Value description: 0: SOP-20-880 active - Start/Stop control is controlled locally by SOP-20-880. 1: Control reference channel - The start/stop control reference is set by the start/stop control word of the control channel. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-09	Retention of SOP-20-880 local/remote state upon power failure	3189	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Non-retentive								

	1：Retentive Others：B connector
	Description： Defines whether to save the SOP-20-880 local/remote state upon power failure.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-10	SOP-20-880 setpoint 1 (Hz)	36312	-327.68 Hz to +327.67 Hz	0.00	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description： SOP-20-880 setpoint 1 (Hz)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-11	SOP-20-880 setpoint 2 (rpm)	36313	-32768 rpm to +32767 rpm	0	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： SOP-20-880 setpoint 2 (rpm)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A10-12	SOP-20-880 setpoint 3 (%)	36314	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： SOP-20-880 setpoint 3 (%)								

A12 Trigger oscilloscope

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-00	State of trigger oscilloscope	33784	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：Not triggered								

	1：Triggered
	Description： Displays the state of trigger oscilloscope. Note: You can get the trigger state of the current oscilloscope by triggering the oscilloscope trigger state (U0-53).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-01	Start of trigger oscilloscope	33783	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Stop 1：Start								
	Description： Defines the start command for the current trigger oscilloscope. Value description: 0: Stop - The trigger oscilloscope stops. 1: Start - The trigger oscilloscope is ready. When the triggering conditions are met, the trigger oscilloscope operates.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-02	Trigger oscilloscope sampling cycle selection	1867	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Carrier cycle 1：2 ms								
	Description： Defines the sampling cycle of the trigger oscilloscope. Value description: 0: Carrier cycle - Data collection is performed in time units based on the carrier cycle. 1: 2 ms - Data collection is performed in time units of 2 ms. Note: The maximum number of active channels of the trigger oscilloscope during the carrier cycle is only 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-03	Sampling cycle multiplier of	1868	1-16	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	trigger oscilloscope								time
	Description: Defines the sampling cycle multiplier of the trigger oscilloscope. Note: The sampling cycle multiplier of the sampling frequency of the trigger oscilloscope defined by A12-02 can be set through this parameter. If the setpoint is 0, sampling is performed based on A12-02 (Sampling cycle of trigger oscilloscope).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-04	Trigger ratio of trigger oscilloscope	1869	10-90	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the trigger ratio of the trigger oscilloscope. Note: Defines the ratio of sampling point data before the triggering condition of the trigger oscilloscope is active.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-05	Trigger mode of triggering condition 1	1870	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Triggered by analog values 1: Triggered by analog bits 2: Triggered by digital values 3: Triggered by state machine 4: Triggered by faults 5: Triggered by minor faults 6: Triggered by alarms								
	Description: Defines the triggering mode of the triggering condition 1 in the trigger oscilloscope. Value description: 0: Triggered by analog values - The triggering conditions are set by A12-06, A12-09, and A12-11. 1: Triggered by analog bits - The triggering conditions are set by A12-07 and A12-10. 2: Triggered by digital values - The triggering condition is set by A12-08. 3: Triggered by the state machine 4: Triggered by faults 5: Triggered by minor faults 6: Triggered by alarms								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-	Analog selection	1871	Refer to	0	Unsigned	1	Real time	General	Effective

06	for triggering condition 1		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog data source setting of triggering condition 1 in the trigger oscilloscope. When comparing with A12-11, the triggering condition is met when the condition of A12-09 is met.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-07	Analog bit selection for triggering condition 1	1872	0-15	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the analog bit of triggering condition 1 in the trigger oscilloscope. It can be used to judge a bit in a word connector.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-08	Digital selection for triggering condition 1	1873	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the analog triggering selection of triggering condition 1 in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-09	Analog comparison condition for triggering condition 1	1874	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to = 3: Greater than or equal to >= 4: Less than or equal to <=								
	Description: Defines the analog comparison condition of triggering condition 1 in the trigger oscilloscope.								

	Note: The triggering oscilloscope is triggered when A12-06 and A12-11 meet this parameter condition.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-10	Bit comparison condition for triggering condition 1	1875	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Rising edge 0 -> 1 1: Falling edge 1 -> 0 2: Edge 0 -> 1 or 1 -> 0 3: High signal 1 4: Low signal 0								
	Description: Used to set the bit comparison condition of triggering condition 1 in the oscilloscope. Note: The triggering oscilloscope is triggered when A12-06 and A12-07 meet this parameter condition.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-11	Analog value of triggering condition 1	1876	-32768 to +32767	0	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the analog triggering comparison value of triggering condition 1 in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-12	Trigger condition relation	1877	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Trigger condition 2 invalid 1: AND 2: OR 3: XOR								
	Description: Defines the logical relationship between triggering condition 1 and triggering condition 2 when triggering condition 1 and triggering condition 2 are combined. Value description: 0: Trigger condition 2 invalid 1: AND - The trigger oscilloscope is activated when both the triggering condition 1 and triggering condition 2 are met. 2: OR - The trigger oscilloscope is activated when either triggering condition 1 or triggering condition 2 is met.								

	3: XOR - The trigger oscilloscope is activated when either triggering condition 1 or triggering condition 2 is met, with the other condition not met.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-13	Trigger mode of triggering condition 2	1878	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Triggered by analog values
1: Triggered by analog bits
2: Triggered by digital values
3: Triggered by state machine
4: Triggered by faults
5: Triggered by minor faults
6: Triggered by alarms

Description:

Defines the triggering mode of the triggering condition 2 in the trigger oscilloscope.

Value description:

0: Triggered by analog values - The triggering conditions are set by A12-14, A12-17, and A12-19.
1: Triggered by analog bits - The triggering conditions are set by A12-15 and A12-18.
2: Triggered by digital values - The triggering condition is set by A12-16.
3: Triggered by the state machine
4: Triggered by faults
5: Triggered by minor faults
6: Triggered by alarms

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-14	Analog selection for triggering condition 2	1879	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
Others: K connector

Description:

Defines the analog selection of triggering condition 2 in the trigger oscilloscope. When comparing with A12-19, the triggering condition is met when the condition of A12-17 is met.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-15	Analog bit selection for triggering condition 2	1880	0-15	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:

Defines the analog bit setting of triggering condition 2 in the trigger oscilloscope. It can be used to judge a bit in a word

	connector.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-16	Digital selection for triggering condition 2	1881	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the digital value of triggering condition 2 in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-17	Analog comparison condition for triggering condition 2	1882	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to = 3: Greater than or equal to >= 4: Less than or equal to <=								
	Description: Defines the analog triggering condition of triggering condition 2 in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-18	Bit comparison condition for triggering condition 2	1883	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Rising edge 0 -> 1 1: Falling edge 1 -> 0 2: Edge 0 -> 1 or 1 -> 0 3: High signal 1 4: Low signal 0								
	Description: Defines the triggering condition of the analog bit of triggering condition 2 in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-19	Analog value of triggering condition 2	1884	-32768 to +32767	0	Signed 16 bits	1	Real time changes	General user	Effective in real time

	Description: Defines the analog triggering comparison value of triggering condition 2 in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-20	Number of trigger oscilloscope sampling channels	1935	0-50	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the number of trigger oscilloscope sampling channels. Note: The number of sampling channels is related to the sampling cycle. The maximum number of active channels of the trigger oscilloscope during the carrier cycle is only 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-21	Trigger oscilloscope channel 1 selection	1885	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 1 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-22	Trigger oscilloscope channel 2 selection	1886	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 2 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-23	Trigger oscilloscope channel 3 selection	1887	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 3 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-24	Trigger oscilloscope channel 4	1888	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time

	selection								
	Description: Used to set channel 4 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-25	Trigger oscilloscope channel 5 selection	1889	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 5 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-26	Trigger oscilloscope channel 6 selection	1890	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 6 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-27	Trigger oscilloscope channel 7 selection	1891	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 7 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-28	Trigger oscilloscope channel 8 selection	1892	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 8 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-29	Trigger oscilloscope channel 9 selection	1893	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description:								

	Used to set channel 9 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-30	Trigger oscilloscope channel 10 selection	1894	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 10 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-31	Trigger oscilloscope channel 11 selection	1895	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 11 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-32	Trigger oscilloscope channel 12 selection	1896	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 12 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-33	Trigger oscilloscope channel 13 selection	1897	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 13 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-34	Trigger oscilloscope channel 14 selection	1898	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 14 selection in the trigger oscilloscope.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A12-35	Trigger oscilloscope channel 15 selection	1899	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 15 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-36	Trigger oscilloscope channel 16 selection	1900	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 16 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-37	Trigger oscilloscope channel 17 selection	1901	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 17 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-38	Trigger oscilloscope channel 18 selection	1902	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 18 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-39	Trigger oscilloscope channel 19 selection	1903	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 19 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-	Trigger	1904	1000-	1000	Signed 16	1	Real time	General	Effective

40	oscilloscope channel 20 selection		3999		bits		changes	user	in real time
	Description: Used to set channel 20 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-41	Trigger oscilloscope channel 21 selection	1905	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 21 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-42	Trigger oscilloscope channel 22 selection	1906	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 22 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-43	Trigger oscilloscope channel 23 selection	1907	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 23 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-44	Trigger oscilloscope channel 24 selection	1908	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 24 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-45	Trigger oscilloscope channel 25	1909	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time

	selection								
	Description: Used to set channel 25 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-46	Trigger oscilloscope channel 26 selection	1910	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 26 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-47	Trigger oscilloscope channel 27 selection	1911	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 27 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-48	Trigger oscilloscope channel 28 selection	1912	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 28 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-49	Trigger oscilloscope channel 29 selection	1913	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 29 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-50	Trigger oscilloscope channel 30 selection	1914	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description:								

	Used to set channel 30 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-51	Trigger oscilloscope channel 31 selection	1915	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 31 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-52	Trigger oscilloscope channel 32 selection	1916	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 32 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-53	Trigger oscilloscope channel 33 selection	1917	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 33 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-54	Trigger oscilloscope channel 34 selection	1918	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 34 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-55	Trigger oscilloscope channel 35 selection	1919	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 35 selection in the trigger oscilloscope.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A12-56	Trigger oscilloscope channel 36 selection	1920	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 36 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-57	Trigger oscilloscope channel 37 selection	1921	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 37 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-58	Trigger oscilloscope channel 38 selection	1922	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 38 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-59	Trigger oscilloscope channel 39 selection	1923	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 39 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-60	Trigger oscilloscope channel 40 selection	1924	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 40 selection in the trigger oscilloscope.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-	Trigger	1925	1000-	1000	Signed 16	1	Real time	General	Effective

61	oscilloscope channel 41 selection		3999		bits		changes	user	in real time
	Description: Used to set channel 41 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-62	Trigger oscilloscope channel 42 selection	1926	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 42 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-63	Trigger oscilloscope channel 43 selection	1927	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 43 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-64	Trigger oscilloscope channel 44 selection	1928	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 44 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-65	Trigger oscilloscope channel 45 selection	1929	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 45 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-66	Trigger oscilloscope channel 46	1930	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time

	selection								
	Description: Used to set channel 46 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-67	Trigger oscilloscope channel 47 selection	1931	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 47 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-68	Trigger oscilloscope channel 48 selection	1932	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 48 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-69	Trigger oscilloscope channel 49 selection	1933	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 49 selection in the trigger oscilloscope.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A12-70	Trigger oscilloscope channel 50 selection	1934	1000-3999	1000	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Used to set channel 50 selection in the trigger oscilloscope.								

A13 Custom channel of black box

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A13-00	Black box custom channel 1 selection	1954	Refer to "Value"	1693	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 1 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-01	Black box custom channel 2 selection	1955	Refer to "Value"	2590	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 2 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-02	Black box custom channel 3 selection	1956	Refer to "Value"	1833	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 3 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-03	Black box custom channel 4 selection	1957	Refer to "Value"	1780	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：0 Others： K connector
	Description： Used to set custom channel 4 selection of the black box. Records the data generated during operation of HCU to the storage medium.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-04	Black box custom channel 5 selection	1958	Refer to "Value"	1544	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Used to set custom channel 5 selection of the black box. Records the data generated during operation of HCU to the storage medium.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-05	Black box custom channel 6 selection	1959	Refer to "Value"	1560	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Used to set custom channel 6 selection of the black box. Records the data generated during operation of HCU to the storage medium.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-06	Black box custom channel 7 selection	1960	Refer to "Value"	1909	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Used to set custom channel 7 selection of the black box. Records the data generated during operation of HCU to the storage medium.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-07	Black box custom channel 8 selection	1961	Refer to "Value"	2523	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 8 selection of the black box. Records the data generated during operation of HCU to the storage medium.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-08	Black box custom channel 9 selection	1962	Refer to "Value"	2522	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 9 selection of the black box. Records the data generated during operation of HCU to the storage medium.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-09	Black box custom channel 10 selection	1963	Refer to "Value"	1877	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 10 selection of the black box. Records the data generated during operation of HCU to the storage medium.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-10	Black box custom channel 11	1964	Refer to "Value"	1797	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	selection								
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 11 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-11	Black box custom channel 12 selection	1965	Refer to "Value"	1839	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 12 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-12	Black box custom channel 13 selection	1966	Refer to "Value"	1840	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 13 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-13	Black box custom channel 14 selection	1967	Refer to "Value"	1874	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description:								

	Used to set custom channel 14 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-14	Black box custom channel 15 selection	1968	Refer to "Value"	1875	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 15 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-15	Black box custom channel 16 selection	1969	Refer to "Value"	1876	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set custom channel 16 selection of the black box. Records the data generated during operation of HCU to the storage medium.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A13-91	Black box triggered forcibly	36913	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Triggered forcibly								
	Description: Defines the black box forced trigger command.								

A14 HE200 rectifier parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-00	Online status of rectifier unit 1	33891	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the online status of rectifier unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-01	Online status of rectifier unit 2	33908	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the online status of rectifier unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-02	Fault status 1 of rectifier unit 1	33892	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault status 1 of rectifier unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-03	Fault status 2 of rectifier unit 1	33893	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault status 2 of rectifier unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-04	Fault status 1 of rectifier unit 2	33909	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault status 1 of rectifier unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-05	Fault status 2 of rectifier unit 2	33910	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault status 2 of rectifier unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-06	Bus voltage of rectifier unit 1	33894	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the bus voltage of the rectifier unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-07	Bus voltage of rectifier unit 2	33911	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the bus voltage of the rectifier unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-08	Grid voltage of rectifier unit 1	33895	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the grid voltage of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-09	Grid voltage of rectifier unit 2	33912	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the grid voltage of rectifier unit 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-10	Module temperature 1 of rectifier unit 1	33898	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays module temperature 1 of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-11	Module temperature 2 of rectifier unit 1	33899	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays module temperature 2 of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-12	Module temperature 3 of rectifier unit 1	33900	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays module temperature 3 of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-13	Temperature of rectifier unit 1 incoming cabinet	33901	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time

	Description: Displays the temperature of the incoming cabinet of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-14	Temperature of rectifier unit 1 braking module	33902	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of the braking module of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-15	Module temperature 1 of rectifier unit 2	33915	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays module temperature 1 of rectifier unit 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-16	Module temperature 2 of rectifier unit 2	33916	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays module temperature 2 of rectifier unit 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-17	Module temperature 3 of rectifier unit 2	33917	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays module temperature 3 of rectifier unit 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-18	Temperature of rectifier unit 2	33918	-3276.8°C to	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real

	incoming cabinet		+3276.7°C						time
	Description: Displays the temperature of the incoming cabinet of rectifier unit 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-19	Temperature of rectifier unit 2 braking module	33919	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of the braking module of rectifier unit 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-20	Power-on status of rectifier unit 1	33896	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Waiting for power-on 1: Pre-charge power-on 2: Waiting completed 3: Power-on completed								
	Description: Displays power-on status of rectifier unit 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-21	Power-on status of rectifier unit 2	33913	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Waiting for power-on 1: Pre-charge power-on 2: Waiting completed 3: Power-on completed								
	Description: Displays power-on status of rectifier unit 2.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A14-22	Grid power overvoltage threshold	33897	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the overvoltage threshold of the grid voltage.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-23	Grid power undervoltage threshold	33914	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the undervoltage threshold of the grid voltage.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-29	Latch current of braking unit 1	33761	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Defines the latch current of braking unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-35	Latch current of braking unit 2	33762	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the latch current of braking unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-36	HINT expansion card selection	2149	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Single drive: HINT expansion card 1 is active.								

	1: Paralleled drive: HINT expansion cards 1 and 2 are active. 2: HINT expansion cards are inactive.
	Description: Defines the HINT expansion card.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-37	HINT expansion card 1 slot selection	2150	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot of HINT expansion card 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-38	HINT expansion card 2 slot selection	2151	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot of HINT expansion card 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-40	Rectifier control selection source	3036	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Cabinet door operation 4: DI3 8: DIL								

	1：Defined by parameter "rectifier switch-on/off command source" 2：DI1 3：DI2	5：DI4 6：DI5 7：DI6	9：HDI1 10：HDI2 Others：B connector
	Description： Defines the rectifier control selection source.		

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-41	Rectifier switch-on/off command source	2153	Refer to "Value"	1000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 2：DI1 3：DI2 4：DI3 5：DI4		6：DI5 7：DI6 8：DIL				9：HDI1 10：HDI2 Others：B connector		
	Description： Defines the rectifier switch-on/off command source. Note: This parameter is active when A14-40 is set to 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-42	Rectifier and braking unit mode selection	2155	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：The rectifier is active and braking unit is inactive. 1：Single drive：Both the rectifier and braking unit 1 are active. 2：Paralleled drive：Both the rectifier and braking units 1 and 2 are active.				3：Single drive with independent brake：The rectifier is inactive and the braking unit 1 is active. 4：Paralleled drive with independent brake：The rectifier is inactive and both the braking unit 1 and braking unit 2 are active.				
	Description： Defines the rectifier and braking unit mode.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A14-43	Model of built-in braking unit	2156	Refer to "Value"	12	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: U41 1: U42 2: U43 3: U44 4: U45 5: U46 6: U47 7: U48 8: U49 9: U50 10: U71 11: U72 12: U73 13: U74 14: U75 15: U76 16: U77 17: U78 18: U79 19: U80 20: U81 21: U82								
	Description: Defines the model of the built-in braking unit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-44	Brake release threshold	2157	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Low 1: High								
	Description: Defines the brake release threshold.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-46	Brake release voltage threshold	3035	500.0-1150.0	1126.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the braking release voltage threshold.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-	Effective voltage	33983	0.0-6553.5	0.0	Unsigned	0.1	Cannot be	General	Effective

47	threshold for brake release				16 bit		changed	user	in real time
	Description: Defines the effective voltage threshold for brake release.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-48	Braking function selection 1	2158	Refer to "Value"	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Overload suppression enable	0: Disable 1: Enable
Tens-	Auto-inspection upon power-on	0: Enable 1: Disable
Hundreds-	Braking auto-inspection fault	0: Rectifier not powered off 1: Rectifier powered off
Thousands-	Braking overload fault selection	0: Rectifier not powered off 1: Rectifier powered off
Ten thousands-	Braking overvoltage fault	0: Rectifier not powered off 1: Rectifier powered off

Description:
Defines braking function selection 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-49	Braking function selection 2	3037	Refer to "Value"	10000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Action upon braking overcurrent	0: Disabled 1: Enabled
Tens-	Action upon braking overtemperature	0: Enabled 1: Disabled
Hundreds-	Action upon braking low temperature	0: Rectifier does not power off 1: Rectifier powers off

Thousands-	Action upon braking IGBT-VCE fault	0: Rectifier does not power off 1: Rectifier powers off
Ten thousands-	Action upon braking IGBT short circuit	0: Rectifier does not power off 1: Rectifier powers off

Description:
Defines braking function selection 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-50	Bus voltage gain of rectifier unit 1	2159	80-120	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the bus voltage gain of rectifier unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-51	Bus voltage offset of rectifier unit 1	2160	0-50	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the bus voltage offset of rectifier unit 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-52	Bus voltage gain of rectifier unit 2	2161	80-120	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the bus voltage gain of rectifier unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-53	Bus voltage offset of rectifier unit 2	2162	0-50	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the bus voltage offset of rectifier unit 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-54	High grid voltage threshold	2217	110-135	115	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the high grid voltage threshold.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A14-55	Low grid voltage threshold	2218	30-85	85	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the low grid voltage threshold.								

A15 Parallel parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-00	Parallel function selection	2419	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Single drive 1: Paralleled drives								
	Description: Used to enable the HCU parallel function. Note: Paralleled control can be achieved through HPCU. Up to ten devices can be paralleled. If the parallel function is enabled but the number of enabled unit modules is 0, 46-1 (Parameter setting error) will be triggered.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-	HPCU online flag	34122	Refer to	0	Unsigned	1	Cannot be	General	Effective

01			"Value"		16 bit		changed	user	in real time
	Value: 0: Offline 1: Online								
	Description: Displays the flag bit indicating that the current HPCU parallel board is online. Value description: 0: Offline 1: Online								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-02	Parallel module enable selection 1	2420	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Module 1	0: Disabled 1: Enabled
Tens-	Module 2	0: Disabled 1: Enabled
Hundreds-	Module 3	0: Disabled 1: Enabled
Thousands-	Module 4	0: Disabled 1: Enabled
Ten thousands-	Module 5	0: Disabled 1: Enabled

Description:

Set the command word 1 for enabling parallel module. Set whether CH1 to CH5 on the HPCU are enabled.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-03	Parallel module enable selection 2	2421	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Module 6	0: Disabled 1: Enabled
Tens-	Module 7	0: Disabled 1: Enabled
Hundreds-	Module 8	0: Disabled 1: Enabled
Thousands-	Module 9	0: Disabled 1: Enabled
Ten thousands-	Module 10	0: Disabled 1: Enabled

Description:

Set the command word 2 for enabling parallel module. Set whether CH6 to CH10 on the HPCU are enabled.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-04	Number of enabled parallel modules	34123	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Description:

Displays the number of enabled parallel modules.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-05	Parallel module online display 1	34125	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Module 1	0: Disabled 1: Enabled
Tens-	Module 2	0: Disabled 1: Enabled
Hundreds-	Module 3	0: Disabled 1: Enabled
Thousands-	Module 4	0: Disabled 1: Enabled
Ten thousands-	Module 5	0: Disabled 1: Enabled

Description:
Displays the enable status word 1 of the current parallel module, which correspond to CH1 to CH5 on the HPCU.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-06	Parallel module online display 2	34126	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Module 6	0: Disabled 1: Enabled
Tens-	Module 7	0: Disabled 1: Enabled
Hundreds-	Module 8	0: Disabled 1: Enabled
Thousands-	Module 9	0: Disabled 1: Enabled
Ten thousands-	Module 10	0: Disabled 1: Enabled

Description:
Displays the enable status word 2 of the current parallel module, which correspond to CH6 to CH10 on the HPCU.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-07	Number of online parallel modules	34124	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Description:
Defines the number of online parallel modules.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-08	Current-sharing function in parallel mode	2422	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:
0: Disable
1: Enable

	Description: Used to enable/disable the current-sharing function in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-11	Protection threshold of current imbalance ratio	2425	5-30	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the protection threshold of current imbalance ratio.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-12	Total rated device power	34118	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the total rated device power.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-13	Total rated device current	34119	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the total rated device current.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-14	Temperature of parallel module 1	34108	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 1 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-	Ambient temperature of	34098	-32768°C to	0	Signed 16	1	Cannot be	General	Effective in real

15	parallel module 1		+32767°C		bits		changed	user	time
	Description: Displays the ambient temperature of power unit module 1 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-16	Temperature of parallel module 2	34109	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 2 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-17	Ambient temperature of parallel module 2	34099	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 2 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-18	Temperature of parallel module 3	34110	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 3 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-19	Ambient temperature of parallel module 3	34100	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 3 in the parallel mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-20	Temperature of parallel module 4	34111	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 4 in the parallel mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-21	Ambient temperature of parallel module 4	34101	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 4 in the parallel mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-22	Temperature of parallel module 5	34112	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 5 in the parallel mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-23	Ambient temperature of parallel module 5	34102	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 5 in the parallel mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-24	Temperature of parallel module 6	34113	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

	Description: Displays the temperature of power unit module 6 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-25	Ambient temperature of parallel module 6	34103	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 6 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-26	Temperature of parallel module 7	34114	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 7 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-27	Ambient temperature of parallel module 7	34104	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 7 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-28	Temperature of parallel module 8	34115	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 8 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A15-29	Ambient temperature of parallel module 8	34105	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 8 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-30	Temperature of parallel module 9	34116	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 9 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-31	Ambient temperature of parallel module 9	34106	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the ambient temperature of power unit module 9 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-32	Temperature of parallel module 10	34117	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature of power unit module 10 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-33	Ambient temperature of parallel module 10	34107	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the ambient temperature of power unit module 10 in the parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-34	HPCU module ID number	34162	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the HPCU module ID number.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-35	HPCU version	34163	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the HPCU version.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-36	General fault word 1 in parallel mode	34164	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the general fault word 1 in parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-37	General fault word 2 in parallel mode	34165	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the general fault word 2 in parallel mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-50	HPCU-ARM status word	34178	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the HPCU-ARM status word.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-66	HINT module monitoring selection	2426	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Module 1 1: Module 2 2: Module 3 3: Module 4 4: Module 5 5: Module 6 6: Module 7 7: Module 8 8: Module 9 9: Module 10								
	Description: Used to select the HINT module to be monitored.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-67	HINT module ID	34129	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: HINT offline 303: Multi-drive inverter/Active rectifier/Regenerative rectifier/Braking/Shore power 304: Basic rectifier 305: DC-DC 307: Single-drive								
	Description: Displays the HINT module ID.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-68	HINT software version	34130	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the HINT software version.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A15-69	HINT module fault word 1	34131	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays HINT module fault word 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-70	HINT module fault word 2	34132	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays HINT module fault word 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-71	HINT module alarm word 1	34133	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays HINT module alarm word 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-90	Available functions of HINT module	34152	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the available functions of HINT module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-91	Enabled functions of HINT module	34153	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the enabled functions of HINT module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A15-94	DI/DO status of HINT module	34156	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the DI/DO status of HINT module.								

A16 Log parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-03	Custom log reset function	36393	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: No operation 1: Reset the number of custom log 1 trigger events 2: Reset the number of custom log 2 trigger events 3: Reset the number of custom log 3 trigger events 4: Reset the number of custom log 4 trigger events 5: Reset the number of all the custom log trigger events 6: Restore custom log configuration parameters								
	Description: Used to set custom log reset function command. Confirm the execution command through A16-04. Value description: 0: No operation - The drive does not perform any operation. 1: Reset the number of custom log 1 trigger events - A16-05 is cleared. 2: Reset the number of custom log 2 trigger events - A16-06 is cleared. 3: Reset the number of custom log 3 trigger events - A16-07 is cleared. 4: Reset the number of custom log 4 trigger events - A16-08 is cleared. 5: Reset the number of all the custom log trigger events - A16-05/A16-06/A16-07/A16-08 are cleared. 6: Restore custom log configuration parameters - Parameters related to group A16 are restored to default values.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-	Reset of custom	36394	Refer to	0	Unsigned	1	Real time	General	Effective

04	log		"Value"		16 bit		changes	user	in real time
	Value: 0: Cancel 1: OK								
	Description: Used to confirm the reset command of custom log. Value description: 0: Cancel - The setpoint 0 is used by default. 1: OK - After setting the custom log reset function command through A16-03, set A16-04 to 1 to activate the setting.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-05	Number of custom log 1 trigger events	36389	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of custom log 1 trigger events, which can be cleared through A16-03.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-06	Number of custom log 2 trigger events	36390	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of custom log 2 trigger events, which can be cleared through A16-03.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-07	Number of custom log 3 trigger events	36391	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of custom log 3 trigger events, which can be cleared through A16-03.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-	Number of custom	36392	0-65535	0	Unsigned	1	Cannot be	General	Effective

08	log 4 trigger events				16 bit		changed	user	in real time
	Description: Displays the number of custom log 4 trigger events, which can be cleared through A16-03.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-15	Trigger mode of custom log 1	6871	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Triggered by analog value 2: Triggered by digital value 3: Triggered by analog or digital value 4: Triggered by analog and digital value								
	Description: Defines the trigger mode of custom log 1. Value description: 0: Invalid 1: Triggered by analog value - defined by A16-16 to A16-18 2: Triggered by digital value - defined by A16-19 and A16-20 3: Triggered by analog or digital value 4: Triggered by analog and digital value								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-16	Analog trigger source of custom log 1	6875	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger source of custom log 1. When comparing with A16-18, the triggering condition is met when the condition of A16-17 is met.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-	Analog trigger	6879	Refer to	0	Unsigned	1	Real time	General	Effective

17	comparison condition for custom log 1		"Value"		16 bit		changes	user	in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to = 3: Greater than or equal to >= 4: Less than or equal to <=								
	Description: Defines the analog trigger comparison condition for custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-18	Analog trigger comparison value source of custom log 1	6883	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger comparison value source of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-19	Digital trigger source of custom log 1	6887	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the digital trigger source of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-20	Digital trigger comparison condition for	6891	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	custom log 1								
	Value: 0: Rising edge (0->1) 1: Falling edge (1->0) 2: Edge (0->1 or 1->0)								
	Description: Defines digital trigger comparison condition for custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-21	Channel 1 of custom log 1	6895	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 1 of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-22	Channel 2 of custom log 1	6896	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 2 of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-23	Custom channel 3 of log 1	6897	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector								
	Description： Defines the channel 3 of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-24	Custom channel 4 of log 1	6898	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the channel 4 of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-25	Custom channel 5 of log 1	6899	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the channel 5 of custom log 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-26	Custom channel 6 of log 1	6900	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the channel 6 of custom log 1.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A16-27	Custom channel 7 of log 1	6901	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 7 of custom log 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-28	Custom channel 8 of log 1	6902	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 8 of custom log 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-31	Trigger mode of custom log 2	6872	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Triggered by analog value 2: Triggered by digital value 3: Triggered by analog or digital value 4: Triggered by analog and digital value								
	Description: Defines the trigger mode of custom log 2. Value description: 0: Invalid 1: Triggered by analog value - defined by A16-32 to A16-34 2: Triggered by digital value - defined by A16-35 and A16-36 3: Triggered by analog or digital value								

	4: Triggered by analog and digital value								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-32	Custom analog triggering source of log 2	6876	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger source of custom log 2. When comparing with A16-34, the triggering condition is met when the condition of A16-33 is met.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-33	Comparison condition of custom analog triggering of log 2	6880	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to = 3: Greater than or equal to >= 4: Less than or equal to <=								
	Description: Defines the analog trigger comparison condition for custom log 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-34	Analog trigger comparison value source of custom log 2	6884	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger comparison value source of custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-35	Custom digital triggering source of log 2	6888	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the digital trigger source of custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-36	Digital trigger comparison condition for custom log 2	6892	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Rising edge (0->1) 1: Falling edge (1->0) 2: Edge (0->1 or 1->0)								
	Description: Defines digital trigger comparison condition for custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-37	Custom channel 1 of log 2	6903	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 1 of custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

A16-38	Custom channel 2 of log 2	6904	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 2 of custom log 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-39	Custom channel 3 of log 2	6905	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 3 of custom log 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-40	Custom channel 4 of log 2	6906	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 4 of custom log 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-41	Custom channel 5 of log 2	6907	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：0 Others： K connector
	Description： Defines the channel 5 of custom log 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-42	Custom channel 6 of log 2	6908	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the channel 6 of custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-43	Custom channel 7 of log 2	6909	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the channel 7 of custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-44	Custom channel 8 of log 2	6910	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the channel 8 of custom log 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-47	Triggering mode of custom mode 3	6873	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Triggered by analog value 2: Triggered by digital value 3: Triggered by analog or digital value 4: Triggered by analog and digital value								
	Description: Defines the trigger mode of custom log 3. Value description: 0: Invalid 1: Triggered by analog value - defined by A16-48 to A16-50 2: Triggered by digital value - defined by A16-51 and A16-52 3: Triggered by analog or digital value 4: Triggered by analog and digital value								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-48	Custom analog triggering source of log 3	6877	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger source of custom log 3. When comparing with A16-50, the triggering condition is met when the condition of A16-49 is met.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-49	Comparison condition of custom analog triggering of log 3	6881	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Greater than > 1：Less than < 2：Equal to = 3：Greater than or equal to >= 4：Less than or equal to <=								
	Description： Defines the analog trigger comparison condition for custom log 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-50	Analog trigger comparison value source of custom log 3	6885	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：K connector								
	Description： Defines the analog trigger comparison value source of custom log 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-51	Custom digital triggering source of log 3	6889	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines the digital trigger source of custom log 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-52	Digital trigger comparison condition for custom log 3	6893	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Rising edge (0->1) 1：Falling edge (1->0)								

	2：Edge (0->1 or 1->0)
	Description： Defines digital trigger comparison condition for custom log 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-53	Custom channel 1 of log 3	6911	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the channel 1 of custom log 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-54	Custom channel 2 of log 3	6912	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the channel 2 of custom log 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-55	Custom channel 3 of log 3	6913	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the channel 3 of custom log 3.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
A16-56	Custom channel 4 of log 3	6914	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 4 of custom log 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-57	Custom channel 5 of log 3	6915	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 5 of custom log 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-58	Custom channel 6 of log 3	6916	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 6 of custom log 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-59	Custom channel 7 of log 3	6917	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 Others: K connector
	Description: Defines the channel 7 of custom log 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-60	Custom channel 8 of log 3	6918	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 Others: K connector
	Description: Defines the channel 8 of custom log 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-63	Triggering mode of custom mode 4	6874	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Invalid 1: Triggered by analog value 2: Triggered by digital value 3: Triggered by analog or digital value 4: Triggered by analog and digital value
	Description: Defines the trigger mode of custom log 4. Value description: 0: Invalid 1: Triggered by analog value - defined by A16-64 to A16-66 2: Triggered by digital value - defined by A16-67 and A16-68 3: Triggered by analog or digital value 4: Triggered by analog and digital value

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-	Custom analog	6878	Refer to	0	Unsigned	1	Real time	General	Effective

64	triggering source of log 4		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger source of custom log 4. When comparing with A16-66, the triggering condition is met when the condition of A16-65 is met.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-65	Comparison condition of custom analog triggering of log 4	6882	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to = 3: Greater than or equal to >= 4: Less than or equal to <=								
	Description: Defines the analog trigger comparison condition for custom log 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-66	Analog trigger comparison value source of custom log 4	6886	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the analog trigger comparison value source of custom log 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-67	Custom digital triggering source	6890	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	of log 4								time
	Value: 0: Invalid Others: B connector								
	Description: Defines the digital trigger source of custom log 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-68	Digital trigger comparison condition for custom log 4	6894	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Rising edge (0->1) 1: Falling edge (1->0) 2: Edge (0->1 or 1->0)								
	Description: Defines digital trigger comparison condition for custom log 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-69	Custom channel 1 of log 4	6919	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 1 of custom log 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-70	Custom channel 2 of log 4	6920	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：0 Others： K connector
	Description： Defines the channel 2 of custom log 4.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-71	Custom channel 3 of log 4	6921	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the channel 3 of custom log 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-72	Custom channel 4 of log 4	6922	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the channel 4 of custom log 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-73	Custom channel 5 of log 4	6923	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the channel 5 of custom log 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-74	Custom channel 6 of log 4	6924	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 6 of custom log 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-75	Custom channel 7 of log 4	6925	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 7 of custom log 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-76	Custom channel 8 of log 4	6926	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the channel 8 of custom log 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-85	Log function enable selection 1	6927	Refer to "Value"	11	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time

Value:

Bit	Name	Value
Ones-	Brake released	0: Disable 1: Enable
Tens-	Brake applied	0: Disable 1: Enable
Hundreds-	AI1 disconnected	0: Disable 1: Enable
Thousands-	AI2 disconnected	0: Disable 1: Enable
Ten thousands-	Jog operation	0: Disable 1: Enable

Description:

Used to set the log function selection 1.

Note:

Log function for some common operations can be set through A16-85 to A16-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-86	Log function enable selection 2	6928	Refer to "Value"	10100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Soften function	0: Disable 1: Enable
Tens-	RTC battery voltage too low	0: Disable 1: Enable
Hundreds-	Auto-inspection	0: Disable 1: Enable
Thousands-	Current state machine	0: Disable 1: Enable
Ten thousands-	Parameter calculation	0: Disable 1: Enable

Description:

Used to set the log function selection 2.

Note:
Log function for some common operations can be set through A16-85 to A16-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-87	Log function enable selection 3	6929	Refer to "Value"	11111	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Control channel switchover	0: Disable 1: Enable
Tens-	Motor parameter group switchover	0: Disable 1: Enable
Hundreds-	Setting channel switchover	0: Disable 1: Enable
Thousands-	SOP20 gets permission	0: Disable 1: Enable
Ten thousands-	SOP20 releases permission	0: Disable 1: Enable

Description:
Used to set the log function selection 3.

Note:
Log function for some common operations can be set through A16-85 to A16-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-88	Log function enable selection 4	6930	Refer to "Value"	11111	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	IDS gets permission	0: Disable 1: Enable
Tens-	IDS releases permission	0: Disable 1: Enabled

Hundreds-	Modify parameter access level	0: Disable 1: Enabled	
Thousands-	Encoder disconnected	0: Disable 1: Enable	
Ten thousands-	Control mode switchover	0: Disable 1: Enable	

Description:

Used to set the log function selection 4.

Note:

Log function for some common operations can be set through A16-85 to A16-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-89	Log function enable selection 5	6931	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Control mode switchover	0: Disable 1: Enable
Tens-	Reserved	0: Disable 1: Enable
Hundreds-	DP bit10 check failure	0: Disable 1: Enable
Thousands-	Reserved	0: Disable 1: Enable
Ten thousands-	Reserved	0: Disable 1: Enable

Description:

Used to set the log function selection 4.

Note:

Log function for some common operations can be set through A16-85 to A16-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-90	Log function enable selection 6	6932	Refer to "Value"	11010	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time

Value:

Bit	Name	Value
Ones-	Inolink offline	0: Disable 1: Enable
Tens-	Execution time synchronization	0: Disable 1: Enabled
Hundreds-	OFF1 state	0: Disable 1: Enabled
Thousands-	OFF2 state	0: Disable 1: Enable
Ten thousands-	OFF3 state	0: Disable 1: Enable

Description:

Used to set the log function selection 6.

Note:

Log function for some common operations can be set through A16-85 to A16-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
A16-91	Log function enable selection 7	6933	Refer to "Value"	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Operation permission	0: Disable 1: Enable
Tens -	Trigger black box record	0: Disable 1: Enable
Hundreds-	Write Modbus mailbox data (reserved)	0: Disable 1: Enable
Thousands-	Write non-Modbus mailbox data	0: Disable 1: Enable
Ten thousands-	Reserved	0: Disable 1: Enable

Description:

Used to set the log function selection 7.

	Note: Log function for some common operations can be set through A16-85 to A16-91.

b0 Start/Stop control word setting of channel 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-00	Start/Stop control word source	90	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Terminal start/stop module 1: Bus adapter A 2: Bus adapter B 3: Custom (set by group b0)								
	Description: Defines the start/stop control word source of control channel 1. Value description: 0: Terminal start/stop module - The start/stop command is set by the terminal start/stop module configured in group b4. 1: Bus adapter A - The start/stop command is set by bus adapter A. 2: Bus adapter B - The start/stop command is set by bus adapter B. 3: Custom (group b0) - The start/stop command is defined by b0-01 to b0-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-01	Custom OFF1 source	91	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to set the source of the custom OFF1 of control channel 1. This parameter is valid only when b0-00 is set to 3. Note: Enabling OFF1 can allow the drive to enter the operational state only when the bus voltage is normal in the ready-to-switch-on state and b0-04 is set to 1. If you cancel the enabling state of OFF1 in the operational state, the drive stops in the								

	OFF1 stop mode defined by E1-14.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-02	Custom OFF2 source 1	96	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 1 of custom OFF2 of control channel 1. This parameter is activated only when b0-00 is set to 3. Value description: 0: Active - When activated in the operational state, the drive enters the power-on block state after coast-to-stop. In this case, you need to deactivate both OFF2 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF2 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF2 source (including OFF2 sources 2 and 3 in group b1) is activated, OFF2 enters the activation state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-03	Custom OFF3 source 1	99	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description:								

	Defines source 1 of custom OFF3 of control channel 1. This parameter is activated only when b0-00 is set to 3. Value description: 0: Active - When activated in the operational state, the drive stops in the OFF3 stop mode defined by E1-16 and enters the switch-on block state. In this case, you need to deactivate both OFF3 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF3 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF3 source (including OFF3 sources 2 and 3 in group b1) is activated, OFF3 enters the activation state.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-04	Custom operation permission source	92	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Operation not permitted 1: Operation permitted 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the custom operation permission source of control channel 1. This parameter is activated only when b0-00 is set to 3. Value description: 0: Operation not permitted - When this parameter is set to "Operation not permitted" in the operational state, the drive stops in the stop mode defined by E1-17 and enters the ready-to-run state. 1: Operation permitted - The drive can enter the operational state. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5								

	7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-05	Custom fault reset source 1	102	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source 1 for custom fault reset of control channel 1. This parameter is activated when b0-00 is set to 3. When this parameter is set from 0 to 1, a fault reset command is triggered once.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-06	Custom JOG1 source	94	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of custom jog 1 of control channel 1. This parameter is activated only when b0-00 is set to 3. Note: When this parameter is active, the jog 1 speed source set by C5-00 is used. When the jog command is canceled, the jog 1 stop mode is used to stop the machine according to the stop mode set by E1-14.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-07	Custom JOG2 source	95	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 4: DI3 5: DI4 8: DIL 9: HDI1								

	2：DI1	6：DI5	10：HDI2
	3：DI2	7：DI6	Others：B connector

Description：

Defines the source of custom jog 2 of control channel 1. This parameter is activated only when b0-00 is set to 3.

Value description:

0: Invalid

1: Reserved

2: DI1

3: DI2

4: DI3

5: DI4

6: DI5

7: DI6

8: DIL

9: HDI1

10: HDI2

Others: B connector

Note:

When this parameter is active, the jog 1 speed source set by C5-00 is used. When the jog command is canceled, the jog 1 stop mode is used to stop the machine according to the stop mode set by E1-14.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b0-08	Custom speed inversion source	93	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value：

0：Disabled	4：DI3	8：DIL
1：Enabled	5：DI4	9：HDI1
2：DI1	6：DI5	10：HDI2
3：DI2	7：DI6	Others：B connector

Description：

Defines the source of custom speed inversion of control channel 1. This parameter is valid only when b0-00 is set to 3.

Note:

When this parameter is active, the current speed reference is inverted.

b1 Other control word setting of channel 1

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
b1-00	OFF2 source 2	97	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Valid　　4： DI3　　8： DIL 1： Invalid　　5： DI4　　9： HDI1 2： DI1　　6： DI5　　10： HDI2 3： DI2　　7： DI6　　Others： B connector								
	Description： Defines source 2 of custom OFF2 of control channel 1. Value description: 0: Active - When activated in the operational state, the drive enters the power-on block state after coast-to-stop. In this case, you need to deactivate both OFF2 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF2 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF2 source is active, OFF2 enters the activation state.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-01	OFF2 source 3	98	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Valid　　4： DI3　　8： DIL 1： Invalid　　5： DI4　　9： HDI1 2： DI1　　6： DI5　　10： HDI2 3： DI2　　7： DI6　　Others： B connector								
	Description： Defines source 3 of custom OFF2 of control channel 1. Value description: 0: Active - When activated in the operational state, the drive enters the power-on block state after coast-to-stop. In this								

	case, you need to deactivate both OFF2 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF2 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF2 source is active, OFF2 enters the activation state.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-02	OFF3 source 2	100	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Valid 1： Invalid 2： DI1 3： DI2 4： DI3 5： DI4 6： DI5 7： DI6 8： DIL 9： HDI1 10： HDI2 Others： B connector								
	Description： Defines source 2 of custom OFF3 of control channel 1. Value description: 0: Active - When activated in the operational state, the drive stops in the OFF3 stop mode defined by E1-16 and enters the switch-on block state. In this case, you need to deactivate both OFF3 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF3 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note:								

	When any OFF3 source is active, OFF3 enters the activation state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-03	OFF3 source 3	101	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 3 of custom OFF3 of control channel 1. Value description: 0: Active - When activated in the operational state, the drive stops in the OFF3 stop mode defined by E1-16 and enters the switch-on block state. In this case, you need to deactivate both OFF3 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF3 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF3 source is active, OFF3 enters the activation state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-04	Fault reset source 2	103	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 2 of custom fault reset of control channel 1. When this parameter is set from 0 to 1, a fault reset command is triggered once.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-05	Fault reset source 3	104	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 3 of custom fault reset of control channel 1. When this parameter is set from 0 to 1, a fault reset command is triggered once.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-06	RFG inhibition source	105	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the inhibition source of the ramp function generator of control channel 1. When this parameter is activated, the output of RFG (U9-09) is set to 0 immediately, and the drive decelerates to 0 immediately. Value description: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-07	RFG pause source	106	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the pause source of the ramp function generator for control channel 1. When this parameter is activated, the output of RFG (U9-09) remains at the current value and the speed remains unchanged.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-08	Source of setting RFG reference to 0	107	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source for setting the ramp function generator reference of control channel 1 to 0. When this parameter is activated, the output of RFG (U9-09) is set to 0. The drive decelerates to 0 according to the set acceleration/deceleration time.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-09	Forced speed tracking source	108	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the forced speed tracking source of control channel 1. Value description: 0: Invalid - E1-00 defines whether speed tracking is enabled. 1: Valid - Speed tracking is enabled forcibly. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5								

	7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-10	Forced torque control source	109	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the forced torque control source of control channel 1. Value description: 0: Invalid - E0-01 defines the control mode. 1: Valid - The torque mode applies forcibly in vector control. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b1-11	Speed regulator enable source	110	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the enable source of the speed regulator of control channel 1.								

	Value description: 0: Disable - The speed regulator is inactive and the drive no longer controls the motor speed. 1: Enable - The speed regulator operates properly to ensure the speed is in closed-loop control. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: Once the speed loop regulator is inhibited, the speed loop output changes to 0 and the torque setpoint changes to 0.

b2 Start/Stop control word setting of channel 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-00	Start/Stop control word source	111	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Terminal start/stop module 1： Bus adapter A 2： Bus adapter B 3： Custom (set by group b2)								
	Description： Defines the start/stop control word source of control channel 2. Value description: 0: Terminal start/stop module - The start/stop command is set by the terminal start/stop module configured in group b4. 1: Bus adapter A 2: Bus adapter B 3: Custom (group b2) - The start/stop commands are set by b2-01 to b2-08.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-01	Custom OFF1	112	Refer to	0	Unsigned	1	Real time	General	Effective

	source		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to set the source of the custom OFF1 of control channel 2. This parameter is valid only when b2-00 is set to 3. Note: Enabling OFF1 can allow the drive to enter the operational state only when the bus voltage is normal in the ready-to-switch-on state and b2-04 is set to 1. If you cancel the enabling state of OFF1 in the operational state, the drive stops in the OFF1 stop mode defined by E1-14.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-02	Custom OFF2 source 1	117	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 1 of custom OFF2 of control channel 2. This parameter is activated only when b2-00 is set to 3. Value description: 0: Active - When activated in the operational state, the drive enters the power-on block state after coast-to-stop. In this case, you need to deactivate both OFF2 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF2 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

	Note: When any OFF2 source (including OFF2 sources 2 and 3 in group b3) is activated, OFF2 enters the activation state.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-03	Custom OFF3 source 1	120	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Valid	4: DI3	8: DIL
1: Invalid	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2
3: DI2	7: DI6	Others: B connector

Description:

Defines source 1 of custom OFF3 of control channel 2. This parameter is activated only when b2-00 is set to 3.

Value description:

0: Active - When activated in the operational state, the drive stops in the OFF3 stop mode defined by E1-16 and enters the switch-on block state. In this case, you need to deactivate both OFF3 and OFF1 to enter the ready-to-switch-on state.

1: Inactive: OFF3 is inactive.

2: DI1

3: DI2

4: DI3

5: DI4

6: DI5

7: DI6

8: DIL

9: HDI1

10: HDI2

Others: B connector

Note:

When any OFF3 source (including OFF3 sources 2 and 3 in group b3) is activated, OFF3 enters the activation state.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-04	Custom operation permission source	113	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Operation not permitted	4: DI3	8: DIL
1: Operation permitted	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2

	3：DI2	7：DI6	Others： B connector
	Description： Defines the custom operation permission source of control channel 2. This parameter is activated only when b2-00 is set to 3. Value description: 0: Operation not permitted - When this parameter is set to "Operation not permitted" in the operational state, the drive stops in the stop mode defined by E1-17 and enters the ready-to-run state. 1: Operation permitted - The drive can enter the operational state. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector		

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-05	Custom fault reset source 1	123	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 1：Enabled 2：DI1 3：DI2 4：DI3 5：DI4 6：DI5 7：DI6 8：DIL 9：HDI1 10：HDI2 Others：B connector								
	Description： Defines source 1 of custom fault reset of control channel 2. This parameter is activated only when b2-00 is set to 3. When this parameter is set from 0 to 1, a fault reset command is triggered once.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-06	Custom JOG1 source	115	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid 1：Reserved 2：DI1 3：DI2 4：DI3 5：DI4 6：DI5 7：DI6 8：DIL 9：HDI1 10：HDI2 Others：B connector								

	Description: Defines the source of custom jog 1 of control channel 2. This parameter is activated only when b2-00 is set to 3. Note: When this parameter is active, the jog 1 speed source set by C5-00 is used. When the jog command is canceled, the jog 1 stop mode is used to stop the machine according to the stop mode set by E1-14.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-07	Custom JOG2 source	116	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of custom jog 2 of control channel 2. This parameter is activated only when b2-00 is set to 3. Note: When this parameter is active, the jog 1 speed source set by C5-00 is used. When the jog command is canceled, the jog 1 stop mode is used to stop the machine according to the stop mode set by E1-14.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b2-08	Custom speed inversion source	114	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of custom speed inversion of control channel 2. This parameter is valid only when b2-00 is set to 3. Note: When this parameter is active, the current speed reference is inverted.								

b3 Other control word setting of channel 2

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
b3-00	OFF2 source 2	118	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 2 of custom OFF2 of control channel 2. Value description: 0: Active - When activated in the operational state, the drive enters the power-on block state after coast-to-stop. In this case, you need to deactivate both OFF2 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF2 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF2 source is active, OFF2 enters the activation state.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-01	OFF2 source 3	119	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 3 of custom OFF2 of control channel 2. Value description: 0: Active - When activated in the operational state, the drive enters the power-on block state after coast-to-stop. In this								

	case, you need to deactivate both OFF2 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF2 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF2 source is active, OFF2 enters the activation state.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-02	OFF3 source 2	121	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Valid 1： Invalid 2： DI1 3： DI2 4： DI3 5： DI4 6： DI5 7： DI6 8： DIL 9： HDI1 10： HDI2 Others： B connector								
	Description： Defines source 2 of custom OFF3 of control channel 2. Value description: 0: Active - When activated in the operational state, the drive stops in the OFF3 stop mode defined by E1-16 and enters the switch-on block state. In this case, you need to deactivate both OFF3 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF3 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note:								

	When any OFF3 source is active, OFF3 enters the activation state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-03	OFF3 source 3	122	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 3 of custom OFF3 of control channel 2. Value description: 0: Active - When activated in the operational state, the drive stops in the OFF3 stop mode defined by E1-16 and enters the switch-on block state. In this case, you need to deactivate both OFF3 and OFF1 to enter the ready-to-switch-on state. 1: Inactive: OFF3 is inactive. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: When any OFF3 source is active, OFF3 enters the activation state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-04	Fault reset source 2	124	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 2 of custom fault reset of control channel 2. When this parameter is set from 0 to 1, a fault reset command is triggered once.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-05	Fault reset source 3	125	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines source 3 of custom fault reset of control channel 2. When this parameter is set from 0 to 1, a fault reset command is triggered once.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-06	RFG inhibition source	126	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the inhibition source of the ramp function generator of control channel 2. When this parameter is activated, the output of RFG (U9-09) is set to 0 immediately, and the drive decelerates to 0 immediately.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-07	RFG pause source	127	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Valid 1: Invalid 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the pause source of the ramp function generator for control channel 2. When this parameter is activated, the output of RFG (U9-09) remains at the current value and the speed remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-08	Source of setting RFG reference to 0	128	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：Valid　4：DI3　8：DIL 1：Invalid　5：DI4　9：HDI1 2：DI1　6：DI5　10：HDI2 3：DI2　7：DI6　Others：B connector
	Description： Defines the source for setting the ramp function generator reference of control channel 2 to 0. When this parameter is activated, the output of RFG (U9-09) is set to 0. The drive decelerates to 0 according to the set acceleration/deceleration time.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-09	Forced speed tracking source	129	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled　4：DI3　8：DIL 1：Enabled　5：DI4　9：HDI1 2：DI1　6：DI5　10：HDI2 3：DI2　7：DI6　Others：B connector								
	Description： Defines the forced speed tracking source of control channel 2. Value description: 0: Invalid - E1-00 defines whether speed tracking is enabled. 1: Valid - Speed tracking is enabled forcibly. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-10	Forced torque control source	130	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled　4：DI3　8：DIL 1：Enabled　5：DI4　9：HDI1 2：DI1　6：DI5　10：HDI2								

	3： DI2　　7： DI6　　Others： B connector
	Description： Defines the forced torque control source of control channel 2. Value description: 0: Invalid - E0-01 defines the control mode. 1: Valid - The torque mode applies forcibly in vector control. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b3-11	Speed regulator enable source	131	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disable　　4： DI3　　8： DIL 1： Enable　　5： DI4　　9： HDI1 2： DI1　　6： DI5　　10： HDI2 3： DI2　　7： DI6　　Others： B connector								
	Description： Defines the enable source of the speed regulator of control channel 2. Value description: 0: Disable - The speed regulator is inactive and the drive no longer controls the motor speed. 1: Enable - The speed regulator operates properly to ensure the speed is in closed-loop control. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

	Note: Once the speed loop regulator is inhibited, the speed loop output changes to 0 and the torque setpoint changes to 0.

b4 Terminal start/stop module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-00	OFF1 status	33875	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the OFF1 state under terminal start/stop control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-01	REV state	33876	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays REV state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-02	Terminal start/stop command 1/2 selection	134	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Terminal start/stop command 1 1: Terminal start/stop command 2 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the terminal start/stop command 1/2 selection. Value description: 0: Terminal start/stop command 1 - (b4-03 to b4-07) are active. 1: Terminal start/stop command 2 - (b4-08 to b4-12) are active. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6								

	8: DIL 9: HDI1 10: HDI2 Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-03	Terminal start/stop command 1 mode	135	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: IN1 for start 2: IN1 for start, IN2 for direction 3: IN1 for forward start, IN2 for reverse start 4: IN1P for start, IN2 for stop 5: IN1P for start, IN2 for stop, IN3 for direction 6: IN1P for forward start, IN2P for reverse start, IN3 for stop								
	Description: Defines the control mode of terminal start/stop command 1. Different functions can be implemented according to the selected modes b4-05 to b4-07.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-05	Input 1 of terminal start/stop command 1	137	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of input 1 (IN1) of terminal start/stop command 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-06	Input 2 of terminal start/stop command 1	138	Refer to "Value"	3	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 4: DI3 5: DI4 6: DI5 8: DIL 9: HDI1 10: HDI2								

	3：DI2		7：DI6			Others：B connector			
	Description： Defines the source of input 2 (IN2) of terminal start/stop command 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-07	Terminal start/stop command 1 input 3	139	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid 1：Reserved 2：DI1 3：DI2		4：DI3 5：DI4 6：DI5 7：DI6			8：DIL 9：HDI1 10：HDI2 Others：B connector			
	Description： Defines the source of input 3 (IN3) of terminal start/stop command 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-08	Terminal start/stop command 2 mode	140	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 1：IN1 for start 2：INT for start, IN2 for direction 3：IN1 for forward start, IN2 for reverse start				4：IN1P for start, IN2 for stop 5：In1P for start, In2 for stop, In3 for direction 6：In1P for forward start, In2P for reverse start, In3 for stop				
	Description： Defines the control mode of terminal start/stop command 2. Different functions can be implemented according to the selected modes b4-10 to b4-12.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-10	Input 1 of terminal start/stop command 2	142	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid 1：Reserved 2：DI1 3：DI2		4：DI3 5：DI4 6：DI5 7：DI6			8：DIL 9：HDI1 10：HDI2 Others：B connector			

	Description: Defines the source of input 1 (IN1) of terminal start/stop command 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-11	Input 2 of terminal start/stop command 2	143	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of input 2 (IN2) of terminal start/stop command 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-12	Input 3 of terminal start/stop command 2	144	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of input 3 (IN3) of terminal start/stop command 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b4-13	JOG1 source	146	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the JOG1 source.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

b4-14	JOG2 source	147	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the JOG2 source.								

b5 Auto-tuning/Auto-inspection

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-00	Auto-tuning request	33785	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: None 1: Static auto-tuning 2: No-load complete auto-tuning 3: Static complete auto-tuning of asynchronous motor 4: Auto-tuning of inter-phase current deviation factor 5: Auto-tuning of moment of inertia 6: Auto-tuning of dead zone time 7: Complete with-load auto-tuning of synchronous motor in FVC mode 8: No-load rotary auto-tuning 9: Asynchronous motor with-load rotary auto-tuning 10: Model auto-tuning 15: Complete with-load rotary auto-tuning of asynchronous motor								
	Description: Used to set the parameter auto-tuning request. Value description: 0: None 1: Static auto-tuning - It is applicable to asynchronous motors and permanent magnet synchronous motors. The motor does not rotate during auto-tuning, and basic parameters of the motor can be auto-tuned. 2: No-load complete auto-tuning - It is applicable to asynchronous motors and permanent magnet synchronous motors. The motor rotates during auto-tuning. Therefore, before auto-tuning, ensure that the motor can rotate without causing personal injury or equipment damage. This method applies to the scenario where the motor is unloaded and can be rotate freely. By this method, the most accurate motor parameters can be obtained. 3: Static complete auto-tuning of asynchronous motor - It is applicable to asynchronous motors only. The motor does not rotate during auto-tuning, and most of the motor parameters can be auto-tuned. 4: Auto-tuning of phase-to-phase current deviation coefficient 5: Auto-tuning of moment of inertia								

	6: Auto-tuning of dead zone time 7: Complete with-load auto-tuning of synchronous motor in FVC mode 8: No-load rotary auto-tuning 9: With-load rotary auto-tuning of asynchronous motor 10: Model auto-tuning 15: Complete with-load rotary auto-tuning of asynchronous motor

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-01	Auto-inspection request	33786	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： None 1： Auto-inspection								
	Description： Used to select auto-detection request. Value description: 0: None 1: Auto-inspection - The auto-inspection items includes IGBT short circuit, IGBT open circuit, output phase loss, current sensor error detection, phase-to-phase imbalance, short circuit to ground, and phase loss and output imbalance in parallel mode. Note: 1. It is recommended that system auto-inspection be performed during use for the first time to check whether internal and external wiring is correct. 2. You can set the details of the auto-inspection items through E8-48.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-02	Parameter calculation type	34062	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： None 1： Calculation of motor parameters 2： Calculation of speed loop parameters 3： Calculation of back EMF voltage calculation of synchronous motor								
	Description： Defines the parameter calculation function to be executed. After setting, confirm the setting by b5-03 [Parameter calculation]. Value description:								

	0: None 1: Calculation of motor parameters - For asynchronous motors, d1-00 to d1-04, d1-13, E1-03, E1-15 and E7-07 are auto-tuned. For synchronous motors, d1-20 to d1-23 are auto-tuned. 2: Calculation of speed loop parameters - Calculation of speed loop parameters can only be triggered in the stop state. After confirmation, the parameters are calculated automatically, without the need for operating the motor. After the automatic calculation of the speed loop parameters is done, E4-02, E4-03, E4-04, and E4-05 are updated. 3: Calculation of synchronous motor back EMF voltage Note: After the parameter calculation is done or parameter calculation is not confirmed for a long time, this parameter will be restored to 0 automatically.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-03	Parameter calculation	34063	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Cancel 1: OK								
	Description: Used to confirm parameter calculation.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-04	Speed loop auto-tuning optimization	3684	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Enabled 1: Disabled								
	Description: Used to enable speed loop auto-tuning optimization.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-05	Speed loop auto-tuning intensity coefficient	3168	20-200	100	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the speed loop auto-tuning intensity coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-07	Auto-inspection	5712	Refer to	0	Unsigned	1	Shutdown	General	Effective in real

	before auto-tuning		"Value"		16 bit		change	user	time
	Value: 0: Identified according to the model 1: Disable 2: Enable								
	Description: Used to enable auto-inspection before auto-tuning.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-09	With-load auto-tuning speed reference source	5506	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: User-defined 1: Internal reference								
	Description: Defines the speed reference source for with-load auto-tuning.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-10	Speed limit of asynchronous motor with-load rotation auto-tuning	1601	25-80	40	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the speed limit of asynchronous motor with-load rotary auto-tuning.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-11	Operating speed of synchronous motor with-load complete auto-tuning	1597	5-80	20	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the operating speed of synchronous motor with-load complete auto-tuning.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-12	Operating direction of synchronous motor with-load complete auto-tuning	1598	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

	0：Forward 1：Reverse
	Description： Defines the operating direction of synchronous motor with-load complete auto-tuning.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-15	Acceleration time of synchronous motor with-load complete auto-tuning	1599	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the acceleration time of synchronous motor with-load complete auto-tuning.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-16	Deceleration time of synchronous motor with-load complete auto-tuning	1600	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the deceleration time of synchronous motor with-load complete auto-tuning.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b5-19	No-load rotation auto-tuning speed	5713	50-70	70	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description： Defines the no-load rotary auto-tuning speed.								

b6 Auxiliary control word setting

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
b6-04	External reactor overtemperature signal source	5031	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Valid 1：Invalid 2：DI1 3：DI2 4：DI3 5：DI4 6：DI5 7：DI6 8：DIL 9：HDI1 10：HDI2 Others：B connector								

	Description： Defines the external reactor overtemperature signal source.

C0 Speed reference of channel 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C0-00	Main reference selection in speed control	150	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：Multi-reference setpoint 1 2：AI1 3：AI2 4：HDI1 5：HDI2 6：Multi-reference value 7：Motorized potentiometer 8：Reserved 9：Process data 2 of bus adapter A 10：Process data 2 of bus adapter B Others：K connector								
	Description： Defines the source of the main speed reference for channel 1 in speed control mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C0-01	Auxiliary reference selection in speed control	151	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：Multi-reference 1 2：AI1 3：AI2 4：HDI1 5：HDI2 6：Multi-reference 7：Motorized potentiometer 8：Reserved 9：Process data 2 of bus adapter A 10：Process data 2 of bus adapter B Others：K connector								
	Description： Defines the source of the auxiliary speed reference for channel 1 in speed control mode. The auxiliary speed reference will be superimposed to the main speed reference and processed by the ramp function generator (RFG).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C0-02	Additional speed reference	152	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：Multi-reference 1 4：HDI1 5：HDI2 8：Reserved 9：Process data 2 of bus adapter A								

	2：AI1 3：AI2	6：Multi-reference 7：Motorized potentiometer	10：Process data 2 of bus adapter B Others：K connector
	Description： Defines the source of the additional speed reference for channel 1 in speed control. The additional speed reference will be superimposed directly to the output command of the ramp function generator (RFG).		

C1 Torque reference of channel 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-00	Torque reference selection in torque control	153	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：Multi-reference value 2 2：AI1 3：AI2 4：HDI1 5：HDI2 6：Multi-reference value 7：Reserved 8：Process data 3 of bus adapter A 9：Process data 3 of bus adapter B 10：Reserved Others：K connector								
	Description： Defines the torque reference source of channel 1 in torque control mode. Note: When torque control is active, the actual torque reference is generated based on the main references after being filtered and processed with the ramp acceleration/deceleration time. The actual torque reference is then superimposed with the additional torque to generate the non-limited torque reference.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-01	Torque reference filter time in torque control	154	0.00-10.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the torque reference filter time of channel 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-02	Speed window in torque control	157	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid								

	1：Valid
	Description： Used to activate the speed window in torque control.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-03	Window speed selection in torque control	155	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Channel 1 speed reference 1：Digital setting								
	Description： Used to select the window speed in torque control, which is activated after being processed with RFG. Value description: 0: Channel 1 speed reference 1: Digital setting - Set by C1-04 Note: 1. When the motor speed is within the window, torque control applies. Even if the load disappears, the regulator controlled by the window can prevent the actual speed from exceeding the window limit. 2. Window control is determined by the center speed W and width H of the window. W-H and W+H are actually generated.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-04	Digital setting of the window speed in torque control	156	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines digital setting of the window speed in torque control. Note: This parameter is active when C1-03 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-05	Speed window width in torque control	158	0-30	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the speed window width in torque control. Note: The window control is determined by the center speed W and width H of the window. The actual active window is (W-H,								

	W+H).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-06	Additional torque reference 1 selection	159	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Digital setting Others: K connector								
	Description: Used to select the additional torque reference. Value description: 0: 0 1: Digital setting - Set by C1-07 Others: K connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-07	Digital setting of additional torque reference 1	160	-400 to +4 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of additional torque reference 1. Note: This parameter is active when C1-06 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-08	Additional torque reference 2	161	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the additional torque reference 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-09	Friction torque selection (additional torque	162	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	reference 3)								time
	Value： 0：0 1：D2-03 Others：K connector								
	Description： Used to select friction torque (additional torque reference 3).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-10	RFG feedforward torque coefficient selection	163	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0% 1：100% Others：K connector								
	Description： Used to select RFG feedforward torque coefficient. Note: In control channel 1, after setting E4-22 to 1/c1-10 to 1/E4-23 to 100%, you can obtain the precise acceleration torque. The current acceleration torque value can be viewed through U6-25/U6-27.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-11	Torque ramp-up time	3903	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the torque-up time. Note: Defines the time for the motor torque to increase from 0 to the rated torque.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C1-12	Torque ramp-down time	3904	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the torque ramp-down time. Note:								

	This parameter defines the time for the motor torque to decrease from rated motor torque to 0.

C2 Speed reference of channel 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C2-00	Main reference selection in speed control	164	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the source of the main speed reference for channel 2 in speed control mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C2-01	Auxiliary reference selection in speed control	165	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the source of the auxiliary speed reference for channel 2 in speed control mode. The auxiliary speed reference will be superimposed to the main speed reference and processed by the ramp function generator (RFG).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C2-02	Additional speed reference	166	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 4: HDI1 5: HDI2 6: Multi-reference 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter								

	3：AI2	7：Motorized potentiometer	B Others：K connector
	Description： Defines the source of the additional speed reference for channel 2 in speed control. The additional speed reference will be superimposed directly to the output command of the ramp function generator (RFG).		

C3 Torque reference of channel 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-00	Torque reference selection in torque control	167	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：Multi-reference value 2 2：AI1 3：AI2 4：HDI1 5：HDI2 6：Multi-reference value 7：Reserved 8：Process data 3 of bus adapter A 9：Process data 3 of bus adapter B 10：Reserved Others：K connector								
	Description： Defines the torque reference source of channel 2 in torque control mode. Note: When torque control is active, the actual torque reference is generated based on the main references after being filtered and processed with the ramp acceleration/deceleration time. The actual torque reference is then superimposed with the additional torque to generate the non-limited torque reference.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-01	Torque reference filter time in torque control	168	0.00-10.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the torque reference filter time of channel 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-02	Speed window in torque control	171	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 1：Enabled								

	Description: Used to activate the speed window in torque control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-03	Window speed selection in torque control	169	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Channel 2 speed reference 1: Parameter								
	Description: Used to select the window speed in torque control, which is activated after being processed with RFG. Value description: 0: Channel 2 speed reference 1: C3-04 Note: 1. When the motor speed is within the window, torque control applies. Even if the load disappears, the regulator controlled by the window can prevent the actual speed from exceeding the window limit. 2. Window control is determined by the center speed W and width H of the window. W-H and W+H are actually generated.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-04	Digital setting of the window speed in torque control	170	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines digital setting of the window speed in torque control. Note: This parameter is active when C3-03 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-05	Speed window width in torque control	172	0-30	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the speed window width in torque control. Note: The window control is determined by the center speed W and width H of the window. The actual active window is (W-H, W+H).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-06	Additional torque reference 1 selection	173	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 1： Digital setting Others： K connector								
	Description： Used to select the additional torque reference. Value description: 0: 0 1: Digital setting - Set by C3-07 Others: K connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-07	Digital setting of additional torque reference 1	174	-400 to +4 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the digital setting of additional torque reference 1. Note: This parameter is active when C3-06 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-08	Additional torque reference 2	175	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Used to set the additional torque reference 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-09	Friction torque selection (additional torque reference 3)	176	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 1: D2-03 Others: K connector
	Description: Used to select friction torque (additional torque reference 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-10	RFG feedforward torque coefficient selection	177	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0% 1: 100% Others: K connector								
	Description: Used to select RFG feedforward torque coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-11	Torque ramp-up time	3905	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the torque-up time. Note: Defines the time for the motor torque to increase from 0 to the rated torque.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C3-12	Torque ramp-down time	3906	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the torque ramp-down time. Note: This parameter defines the time for the motor torque to decrease from rated motor torque to 0.								

C4 Motorized potentiometer

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-00	Motorized potentiometer function	178	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Cleared upon power failure 2: Retentive upon power failure								
	Description: Used to set the function of the motorized potentiometer. Value description: 0: Disabled - The motorized potentiometer function is disabled and U9-29 [Motorized potentiometer output] is cleared. 1: Clear upon power failure - The value of C4-01 applies upon power-on. 2: Retentive upon power failure - The value saved before power failure applies upon power-on. Note: When the SOP-20-880 control device is used, local control is active and the speed reference (A10-01) set by SOP-20-880 is 0. The motorized potentiometer output is used as the current speed reference. The motorized potentiometer increases and decreases as instructed by SOP-20-880.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-01	Initial value of motorized potentiometer	179	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the initial value of motorized potentiometer after power-on.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-02	Ramp time of motorized potentiometer	180	0.1-1000.0	10.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the ramp time of motorized potentiometer. Note: This parameter defines the time for the output to increase from 0% to 100% or decrease from 100% to 0%.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-03	Minimum value of motorized	181	-600 to +6	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real

	potentiometer		00						time
	Description: Defines the minimum value of motorized potentiometer. Note: This parameter defines the lower limit of motorized potentiometer output (U9-29).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-04	Maximum value of motorized potentiometer	182	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum value of motorized potentiometer. Note: Defines the upper limit of the motorized potentiometer output (U9-29).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-05	Value increase source of motorized potentiometer	1944	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the value increase source of motorized potentiometer. Note: When the increase or decrease command is active, the output increases or decreases as defined by C4-02. When both increases and decrease commands are inactive or neither of them is active, the output value remains the same.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-06	Value decrease source of motorized potentiometer	1945	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 4: DI3 5: DI4 8: DIL 9: HDI1								

	2：DI1 3：DI2		6：DI5 7：DI6			10：HDI2 Others：B connector			
	Description： Defines the value decrease source of motorized potentiometer. Note: When the increase or decrease command is active, the output increases or decreases as defined by C4-02. When both increases and decrease commands are inactive or neither of them is active, the output value remains the same.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-07	Source of forced value of motorized potentiometer	2589	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 1：Enabled 2：DI1 3：DI2		4：DI3 5：DI4 6：DI5 7：DI6			8：DIL 9：HDI1 10：HDI2 Others：B connector			
	Description： Defines the source of forced value of motorized potentiometer. Note: When this parameter is set to 1, the output of the motorized potentiometer is set to the value defined by C4-08 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-08	Source of forced value of motorized potentiometer	2899	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：100% 2：C4-09 Others：K connector								
	Description： Defines the source of forced value of motorized potentiometer. When C4-08 is set to 2, the source of forced value of the motorized potentiometer is C4-09.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-09	Force value of motorized potentiometer	2590	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description：								

	Defines the forced value of motorized potentiometer. Note: This parameter defines the forced value when digital setting applies (C4-08 = 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-10	Source of reset command of motorized potentiometer	2900	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of motorized potentiometer reset command. Note: The rising edge of the reset command triggers a reset of the output value. The reset value is defined by C4-11.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-11	Source of motorized potentiometer reset value	2901	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 100% 2: C4-12 Others: K connector								
	Description: Defines the source of motorized potentiometer reset value. When C4-11 is set to 2, the source of forced value of the motorized potentiometer is C4-12.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C4-12	Reset value of motorized potentiometer	2902	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the reset value of motorized potentiometer.								

	Note: The reset value is set through digital setting when C4-11 is set to 2.

C5 Jog setting

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C5-00	JOG1 reference	183	-50 to +50	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the reference speed in JOG1 mode. This speed applies during JOG1 operation.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C5-01	JOG1 reference	184	-50 to +50	-10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the reference speed in JOG2 mode. This speed applies during JOG2 operation.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C5-02	JOG acceleration time	185	0.1-1000.0	10.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the acceleration time during jog. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100%.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C5-03	JOG deceleration time	186	0.1-1000.0	10.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the deceleration time during jog. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% to 0%.								

C6 Multi-reference

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-00	Reference value	32801	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the actual value of the current multi-reference, which can be viewed and monitored through U9-30.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-01	Multi-reference selection 1	187	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines bit0 of the multi-reference value. The multi-reference values 1 to 4 determine the setting selected by C6-00. Note: It can be viewed and monitored through U0-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-02	Multi-reference selection 2	188	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines bit1 of the multi-reference value. The multi-reference values 1 to 4 determine the setting selected by C6-00. Note: It can be viewed and monitored through U0-32.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-03	Multi-reference selection 3	189	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 4: DI3 8: DIL 1: 1 5: DI4 9: HDI1 2: DI1 6: DI5 10: HDI2 3: DI2 7: DI6 Others: B connector
	Description: Defines bit2 of the multi-reference value. The multi-reference values 1 to 4 determine the setting selected by C6-00. Note: It can be viewed and monitored through U0-33.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-04	Multi-reference selection 4	190	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 4: DI3 8: DIL 1: 1 5: DI4 9: HDI1 2: DI1 6: DI5 10: HDI2 3: DI2 7: DI6 Others: B connector								
	Description: Defines bit3 of the multi-reference value. The multi-references 1 to 4 determine the setting selected by C6-00. Note: It can be viewed and monitored through U0-34.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-05	Multi-reference 1	191	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 1, which can be viewed and monitored through U9-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-06	Multi-reference 2	192	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 2, which can be viewed and monitored through U9-32.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-07	Multi-reference 3	193	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

	Description: Defines the multi-reference value 3, which can be viewed and monitored through U9-33.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-08	Multi-reference 4	194	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 4, which can be viewed and monitored through U9-34.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-09	Multi-reference 5	195	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 5, which can be viewed and monitored through U9-35.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-10	Multi-reference 6	196	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 6, which can be viewed and monitored through U9-36.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-11	Multi-reference 7	197	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 7, which can be viewed and monitored through U9-37.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-12	Multi-reference 8	198	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 8, which can be viewed and monitored through U9-38.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-13	Multi-reference 9	199	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 9, which can be viewed and monitored through U9-39.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-14	Multi-	200	-600 to +6	0	Signed 16	0.1	Real time	General	Effective in

	reference 10		00		bits		changes	user	real time
	Description: Defines the multi-reference value 10, which can be viewed and monitored through U9-40.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-15	Multi-reference 11	201	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 11, which can be viewed and monitored through U9-41.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-16	Multi-reference 12	202	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 12, which can be viewed and monitored through U9-42.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-17	Multi-reference 13	203	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 13, which can be viewed and monitored through U9-43.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-18	Multi-reference 14	204	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 14, which can be viewed and monitored through U9-44.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-19	Multi-reference 15	205	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 15, which can be viewed and monitored through U9-45.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C6-20	Multi-reference 16	206	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the multi-reference value 16, which can be viewed and monitored through U9-46.								

C7 Basic parameters of ramp function generator

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-00	RFG input	32802	-32768 rpm to +32767 rpm	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays RFG input.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-01	RFG output	32803	-32768 rpm to +32767 rpm	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Description: Displays RFG output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-02	bit0 of RFG ramp selection	207	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines bit0 of RFG selection. Note: This parameter is used together with C7-03 to switch the ramp function generator (RFG) parameters (C7-04 to C7-19). When bit0 of RFG selection is set to 0, ramp 1 parameter applies. When bit0 and bit1 of RFG selection are set to 1 and 0 respectively, ramp 2 parameter applies. When bit0 and bit1 of RFG selection are set to 0 and 1 respectively, ramp 3 parameter applies. When bit0 and bit1 of RFG selection are set to 1, ramp 4 parameter applies.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-03	bit1 of RFG ramp selection	208	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0　4：DI3　8：DIL 1：1　5：DI4　9：HDI1 2：DI1　6：DI5　10：HDI2 3：DI2　7：DI6　Others：B connector
	Description： Defines bit1 of RFG selection. Note: This parameter is used together with C7-02 to switch the ramp function generator (RFG) parameters (C7-04 to C7-19). When bit0 of RFG selection is set to 0, ramp 1 parameter applies. When bit0 and bit1 of RFG selection are set to 1 and 0 respectively, ramp 2 parameter applies. When bit0 and bit1 of RFG selection are set to 0 and 1 respectively, ramp 3 parameter applies. When bit0 and bit1 of RFG selection are set to 1, ramp 4 parameter applies.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-04	Ramp 1 acceleration time	209	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines ramp 1 acceleration time. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when both C7-02 and C7-03 are set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-05	Ramp 1 deceleration time	210	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines ramp 1 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when both C7-02 and C7-03 are set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-06	Ramp 2 acceleration time	211	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines ramp 2 acceleration time.								

	Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when C7-02 is set to 1 and C7-03 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-07	Ramp 2 deceleration time	212	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines ramp 2 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when C7-02 is set to 1 and C7-03 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-08	Ramp 3 acceleration time	213	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines ramp 3 acceleration time. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when C7-02 is set to 0 and C7-03 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-09	Ramp 3 deceleration time	214	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines ramp 3 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when C7-02 is set to 0 and C7-03 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-10	Ramp 4 acceleration time	215	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description: Defines ramp 4 acceleration time. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when both C7-02 and C7-03 are set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-11	Ramp 4 deceleration time	216	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines ramp 4 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when both C7-02 and C7-03 are set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-12	Arc time at the start of ramp 1	217	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the arc time at the start of ramp 1, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when both C7-02 and C7-03 are set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-13	Arc time at the end of ramp 1	218	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 1, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when both C7-02 and C7-03 are set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-14	Arc time at the	219	0.00-	0.00	Unsigned	0.01	Real time	General	Effective in

	start of ramp 2		20.00		16 bit		changes	user	real time
	Description: Defines the arc time at the start of ramp 2, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when C7-02 is set to 0 and C7-03 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-15	Final rounding time of ramp 2	220	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 2, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when C7-02 is set to 0 and C7-03 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-16	Initial rounding time of ramp 3	221	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the arc time at the start of ramp 3, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when C7-02 is set to 1 and C7-03 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-17	Final rounding time of ramp 3	222	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 3, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when C7-02 is set to 1 and C7-03 to 0.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
C7-18	Initial rounding time of ramp 4	223	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the arc time at the start of ramp 4, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when both C7-02 and C7-03 are set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-19	Final rounding time of ramp 4	224	0.00-20.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 4, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when both C7-02 and C7-03 are set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-20	Low-speed acceleration time gain	225	1.0-10.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the acceleration time gain at low speed. Note: When the actual speed is lower than the low-speed segment threshold set by C7-21, the actual effective acceleration time is the ramp acceleration time at present x acceleration time gain of low-speed segment (valid only during acceleration). When the actual speed is higher than the low-speed segment threshold, normal acceleration time is resumed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-21	Low speed threshold	226	0-100	15	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of low-speed segment. Note: When the actual speed is lower than this threshold, the actual effective acceleration time is the ramp acceleration time at								

	present x C7-20 low-speed acceleration time gain (valid only during acceleration). When the actual speed is higher than this threshold, normal acceleration time is resumed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-23	Forced RFG output	228	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to enable ramp output forcibly. When this parameter is enabled, the output of the ramp function generator (RFG) is always set to the value of C7-24 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-24	RFG forced value	229	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: When C7-23 [Forced RFG output] is enabled, the output of the ramp function generator (RFG) is set to the value of this parameter forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-25	RFG input ramp change	3217	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled Others: B connector								
	Description: Defines whether to enable continuous ramp input change. When enabled, the variable ramp function can be activated. Value description: 0: Disable: Disable the ramp change function. 1: Enable - Enable the ramp change function. Others: B connector Note:								

	This function can control the speed ramp slope during speed reference change, which can generate a continuous ramp change rate. When the signal update interval of the external control system (time interval sent by PLC) is consistent with the RFG input ramp change interval (C7-26), the output speed reference of RFG (U9-09) is linear.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-26	RFG input ramp change interval	3218	2-5000	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the ramp input change interval. Note: It is recommended to set this time to the same interval as the signal update interval of the external control system.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-27	RFG arc mode selection	3902	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Incontinuous smoothing 1: Continuous smoothing								
	Description: Defines the arc mode of the ramp. Value description: 0: Incontinuous smoothing - Executed immediately when speed changes 1: Continuous smoothing - During acceleration, even if the input value suddenly decreases, the motor will execute the end arc (causing overshoot) before deceleration. During deceleration, even if the input value suddenly increases, the motor will execute the end arc (causing overshoot) before acceleration.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-28	RFG tracking function	227	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable 2: Torque/current limit reached (U1-10) Others: B connector								
	Description: Used to enable RFG tracking function.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C7-29	Ramp tracking	3190	0.1-300	10	Unsigned	0.1	Real time	General	Effective in

	error				16 bit		changes	user	real time
	Description: Defines the ramp error setting.								

C8 Advanced parameters of ramp function generator

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-00	Ramp selection in group C7/C8	7451	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Ramp in group C7 activated, ramp in group C8 deactivated 1: Ramp in group C7 deactivated, ramp in group C8 activated Others: B connector								
	Description: Used to activate parameters in groups C7 or C8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-01	Automatic switchover of ramps 1/2	7452	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines whether to switch parameters of ramps 1/2. Note: Set C8-01 to C8-05 to switch the acceleration/deceleration time at a certain speed threshold. This means that the acceleration/deceleration time 1 switches to acceleration/deceleration time 2 when a certain speed is reached, thus meeting the requirements of different acceleration/deceleration time at different speeds.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-02	Source of speed threshold for switching ramps 1/2	7453	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：0 1：C8-03 Others：K connector
	Description： Defines the source of speed threshold for switching ramps 1/2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-03	Digital setting of speed threshold for switching ramps 1/2	7454	0-600	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the digital setting of the speed threshold for automatic switchover of ramps 1/2. Note: This parameter is active when C8-02 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-04	Source of speed hysteresis value for automatic switchover of ramps 1/2	7455	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 1：C8-05 Others：K connector								
	Description： Defines the speed hysteresis value source for automatic switchover of ramps 1/2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-05	Digital setting of speed hysteresis value for automatic switchover of ramps 1/2	7456	0-600	0.5	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the digital setting of the speed hysteresis value for automatic switchover of ramps 1/2. Note: This parameter is active when C8-04 is set to 1.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
C8-06	bit0 of RFG ramp selection	7457	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines bit0 of RFG selection. Note: This parameter is used together with C8-07 to switch the ramp function generator (RFG) parameters (C8-08 to C8-23). When bit0 of RFG selection is set to 0, ramp 1 parameter applies. When bit0 and bit1 of RFG selection are set to 1 and 0 respectively, ramp 2 parameter applies. When bit0 and bit1 of RFG selection are set to 0 and 1 respectively, ramp 3 parameter applies. When bit0 and bit1 of RFG selection are set to 1, ramp 4 parameter applies.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-07	bit1 of RFG ramp selection	7458	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines bit1 of RFG selection. Note: This parameter is used together with C8-06 to switch the ramp function generator (RFG) parameters (C8-08 to C8-23). When bit0 of RFG selection is set to 0, ramp 1 parameter applies. When bit0 and bit1 of RFG selection are set to 1 and 0 respectively, ramp 2 parameter applies. When bit0 and bit1 of RFG selection are set to 0 and 1 respectively, ramp 3 parameter applies. When bit0 and bit1 of RFG selection are set to 1, ramp 4 parameter applies.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-08	Ramp 1 acceleration time	7459	0.000-60030.975	20.000	Unsigned 32	0.001	Real time changes	General user	Effective in real time
	Description: Defines ramp 1 acceleration time.								

	Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when both C8-02 and C8-03 are set to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-09	Ramp 1 deceleration time	7461	0.000-60030.975	20.000	Unsigned 32	0.001	Real time changes	General user	Effective in real time
	Description: Defines ramp 1 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when both C8-02 and C8-03 are set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-10	Ramp 2 acceleration time	7463	0.000-60030.975	20.000	Unsigned 32	0.001	Real time changes	General user	Effective in real time
	Description: Defines ramp 2 acceleration time. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when C8-02 is set to 1 and C8-03 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-11	Ramp 2 deceleration time	7465	0.000-60030.975	20.000	Unsigned 32	0.001	Real time changes	General user	Effective in real time
	Description: Defines ramp 2 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when C8-02 is set to 1 and C8-03 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-12	Ramp 3 acceleration time	7467	0.000-60.000	20.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description: Defines ramp 3 acceleration time. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when C8-02 is set to 0 and C8-03 to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-13	Ramp 3 deceleration time	7468	0.000-60.000	20.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines ramp 3 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when C8-02 is set to 0 and C8-03 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-14	Ramp 4 acceleration time	7469	0-60000	20	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines ramp 4 acceleration time. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100% (d3-02 per-unit speed base value). This parameter is active when both C8-02 and C8-03 are set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-15	Ramp 4 deceleration time	7470	0-60000	20	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines ramp 4 deceleration time. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% (d3-02 per-unit speed base value) to 0%. This parameter is active when both C8-02 and C8-03 are set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-16	Arc time at the start	7471	0.00-60.00	0.00	Unsigned	0.01	Real time	General	Effective

	of ramp 1				16 bit		changes	user	in real time
	Description: Defines the arc time at the start of ramp 1, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when both C8-02 and C8-03 are set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-17	Arc time at the end of ramp 1	7472	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 1, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when both C8-02 and C8-03 are set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-18	Arc time at the start of ramp 2	7473	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the arc time at the start of ramp 2, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when C8-02 is set to 0 and C8-03 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-19	Final rounding time of ramp 2	7474	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 2, which can reduce the shock generated during sudden change of acceleration. Note:								

	The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when C8-02 is set to 0 and C8-03 to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-20	Initial rounding time of ramp 3	7475	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the arc time at the start of ramp 3, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when C8-02 is set to 1 and C8-03 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-21	Final rounding time of ramp 3	7476	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the ramp time at the end of ramp 3, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when C8-02 is set to 1 and C8-03 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-22	Initial rounding time of ramp 4	7477	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the arc time at the start of ramp 4, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at start is the time for the motor to accelerate (or decelerate) at steady speed from 0 to the maximum acceleration (determined by the acceleration/deceleration time). This parameter is active when both C8-02 and C8-03 are set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
C8-23	Final rounding time	7478	0.00-60.00	0.00	Unsigned	0.01	Real time	General	Effective

	of ramp 4				16 bit		changes	user	in real time
	Description: Defines the ramp time at the end of ramp 4, which can reduce the shock generated during sudden change of acceleration. Note: The arc time at end is the time for the motor to change from the maximum acceleration (determined by the acceleration/deceleration time) to the steady speed (acceleration or deceleration). This parameter is active when both C8-02 and C8-03 are set to 1.								

d0 Basic motor parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-00	Motor type selection	233	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Induction motor 2: Permanent magnet synchronous motor 5: Electromagnetic coil								
	Description: Select the motor type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-01	Rated motor power	237	0.1-6553.5	3.7	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the rated motor power according to the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-02	Rated motor voltage	241	1-1500	380	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the rated motor voltage according to the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

d0-03	Rated motor current	245	0.1-6553.5	9.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the rated motor current according to the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-04	Rated motor frequency	249	0.1-600.0	50.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the rated motor frequency according to the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-05	Rated motor speed	253	1-36000	1440	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the rated motor speed according to the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-06	Maximum motor speed	257	0-600	100	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the maximum motor speed. The value of d0-06 cannot be exceeded in both forward and reverse directions. The setpoint 100% corresponds to the per-unit speed of d3-02 (synchronous speed). Note: The motor speed upper limit is determined by d0-06, E2-04, and E2-06 together. The minimum upper limit of the speed is 0, which cannot be a negative value. The motor speed lower limit is determined by d0-06, E2-05, and E2-07. The maximum lower limit of the speed is 0, which cannot be a positive value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-07	Minimum motor speed	261	0-600	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the minimum motor speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

d0-08	Maximum motor current	265	100-600	150	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the maximum motor current.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-09	Number of motor pole pairs (number of poles/2)	269	0-64	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Set the number of motor pole pairs based on the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-10	Number of paralleled motors	341	1-99	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Set the number of paralleled motors based on the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-11	Speed feedback selection	277	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Encoder detection module 1 1: Encoder detection module 2 2: Encoder detection module 3								
	Description: Defines the encoder source for speed feedback.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-12	Motor power factor	1936	0.700-0.999	0.860	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Set the motor power factor according to the motor nameplate.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-13	Motor brake	3077	Refer to	1	Unsigned	1	Shutdown	General	Effective

	control		"Value"		16 bit		change	user	in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to set whether the motor brake control function in group L1 is enabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-16	Motor direction of rotation	3179	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Normal 1: Opposite								
	Description: Defines the motor direction of rotation.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-20	Output LC filter configuration	5508	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: No 1: Yes								
	Description: Defines the output LC filter configuration.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-21	Inductance of output LC filter	5512	0.01-300.00	10.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the inductance of output LC filter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d0-22	Capacitance of output LC filter	5516	0.1-1000.0	5.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the capacitance of output LC filter.								

d1 Basic auto-tuning parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-02	Motor stator resistance	5120	0.00001-65.00000	1.66666	Unsigned 32	0.00001	Real time changes	General user	Effective in real time
	Description: Defines the motor stator resistance, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-04	Asynchronous motor rotor resistance	5128	0.00001-65.00000	1.66666	Unsigned 32	0.00001	Real time changes	General user	Effective in real time
	Description: Defines the asynchronous motor rotor resistance, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-06	Leakage inductance of motor	289	0.001-65.535	6.540	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the motor leakage inductance, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-08	Mutual inductance of motor	293	0.01-655.35	173.40	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the mutual inductance of the motor, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-10	No-load current of motor	297	0.1-6553.5	4.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the no-load current of the motor, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-11	No-load current (total)	32965	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be	General user	Effective in real

							changed		time
	Description: Defines the no-load current (total), which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-12	Magnetic field saturation flux coefficient 1 of asynchronous motor	2754	0-150	125	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation flux coefficient 1 of asynchronous motor, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-13	Magnetic field saturation mutual inductance coefficient 1 of asynchronous motors	301	0-6553.5	140	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation mutual inductance coefficient 1 of asynchronous motors, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-14	Magnetic field saturation flux coefficient 2 of asynchronous motor	2758	0-150	115	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation flux coefficient 2 of asynchronous motor, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-15	Magnetic field saturation mutual inductance coefficient 2 of asynchronous motors	305	0-6553.5	115	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation mutual inductance coefficient 2 of asynchronous motors, which can be auto-tuned.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
d1-16	Magnetic field saturation flux coefficient 3 of asynchronous motor	2762	0-150	85	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation flux coefficient 3 of asynchronous motor, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-17	Magnetic field saturation mutual inductance coefficient 3 of asynchronous motors	309	0-6553.5	90	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation mutual inductance coefficient 3 of asynchronous motors, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-18	Magnetic field saturation flux coefficient 4 of asynchronous motor	2766	0-150	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation flux coefficient 4 of asynchronous motor, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-19	Magnetic field saturation mutual inductance coefficient 4 of asynchronous motors	313	0-6553.5	80	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the magnetic field saturation mutual inductance coefficient 4 of asynchronous motors, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-20	Magnetic field rotor time constant of asynchronous	33877	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	motors								
	Description: Defines the asynchronous magnetic field rotor time constant, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-21	Asynchronous motor Rr online auto-tuning	33095	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Defines online auto-tuning of the asynchronous motor Rr, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-22	Motor stator resistance	5120	0.00001-65.00000	1.66666	Unsigned 32	0.00001	Real time changes	General user	Effective in real time
	Description: Defines the motor stator resistance, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-24	d-axis inductance of synchronous motor	325	0.001-65.535	0.001	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the d-axis inductance of the synchronous motor, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-25	q-axis inductance of synchronous motor	329	0.001-65.535	0.001	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the q-axis inductance of the synchronous motor, which can be auto-tuned.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d1-26	Back EMF voltage of synchronous motors	333	0.1-6553.5	0.1	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the back EMF voltage of the synchronous motor, which can be auto-tuned.								

d2 Additional auto-tuning parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d2-00	Inertia	32976	0.000-4294967.295	0.000	Unsigned 32	0.001	Cannot be changed	General user	Effective in real time
	Description: Defines the inertia parameter of the motor, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d2-01	Number of motor pole pairs	33780	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of motor pole pairs, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d2-02	Inertia ratio	345	0-65535	100	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the inertia ratio of the motor, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d2-03	Friction torque	349	0-100	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the motor friction torque, which can be auto-tuned.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d2-04	Hot-cold resistance ratio	353	0-300	100	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the hot-cold resistance ratio.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d2-05	Rated motor start time	32804	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description:								

	Defines the rated start time of the motor.

d3 Base value information

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-00	Base value of per-unit voltage	33791	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit voltage.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-01	Base value of per-unit current	33792	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit current.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-02	Base value of per-unit speed	33789	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-03	Base value of per-unit frequency	33790	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit frequency.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-04	Base value of per-unit power	33794	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit power.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
d3-05	Base value of per-unit DC voltage	35046	-3276.8 V to +3276.7 V	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit DC voltage.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-06	Position control speed reference	36049	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the speed reference in position control.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
d3-07	Base value of per-unit torque	36914	0.00-42949672.95	0.00	Unsigned 32	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the base value of per-unit torque.								

E0 Control setting

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-00	Control mode	357	Refer to "Value"	2	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Sensorless vector control (SVC) 1: Feedback vector control (FVC) 2: V/f								
	Description: Defines the control mode of the drive. This parameter is valid when E0-06 is set to 0. If E0-06 is set to 1, the control mode is defined by E0-07/E0-08. Value description: 0: SVC (Sensorless vector control) - Sensorless field-oriented control This mode features excellent dynamic performance and steady-state accuracy, but it is highly dependent on parameters and needs prior auto-tuning of motor parameters. 1: FVC (Feedback vector control) - The speed is fed back by the encoder to reach the optimal control performance. 2: V/f - Open loop control with constant voltage/frequency ratio The dynamic performance of this mode is not as good as the SVC mode.								

	Note: It is recommended to install an encoder for active loads that run in FVC mode for a long time at zero speed. If you need to run in SVC mode in such applications, enable the SVC speed open-loop control function (E11-08 = 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-01	Control mode	361	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Speed control 1: Torque control 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the control mode of the drive. In V/f mode, the torque control mode is invalid.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-02	Positive speed selection	365	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to set whether operation at positive speed is allowed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-03	Negative speed permission	369	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to set whether operation at negative speed is allowed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-06	Control mode	5676	Refer to	0	Unsigned	1	Shutdown	General	Effective in

	setting source		"Value"		16 bit		change	user	real time
	Value: 0: E0-00 1: E0-07/E0-08 Others: B connector								
	Description: Defines the control mode setting source.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-07	Control mode source 1	5680	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: E0-08 1: V/f Others: B connector								
	Description: This parameter is active when E0-06 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E0-08	Control mode source 2	5684	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Sensorless vector control (SVC) 1: Feedback vector control (FVC) 2: V/f Others: B connector								
	Description: This parameter is active when E0-06 is set to 1.								

E1 Start/Stop control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-00	Start mode	373	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Direct start 1: Flying start 2: DC braking at start								

	Description： Defines the start mode of the drive. Value description: 0: Direct start - The drive starts directly. 1: Flying start - Flying start applies when the motor operating at a high speed needs to be started again in non-FVC control modes. 2: DC braking at start - In this mode, DC braking is applied on the motor before operation to make sure that the motor is at zero speed. Note: When the asynchronous motor is in SVC or FVC mode, the motor needs to enter the pre-excitation state before starting, so as to establish a rotor magnetic field to better control the output torque of the motor.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-01	Pre-excitation mode	377	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： By time 1： By current								
	Description： Defines the pre-excitation mode of the asynchronous motor. Value description: 0: By time - Excitation time is set by E1-02. The excitation current is calculated dynamically based on the excitation time. After the excitation time is reached, pre-excitation is done. 1: By current - The excitation current is determined by E1-03 and E1-04. Pre-excitation is done when the motor magnetic field established exceeds the value of E6-03 [Minimum flux threshold at star].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-02	Pre-excitation time	381	0.00-20.00	0.10	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the pre-excitation time, which is activated when E1-01 is set to 0. Note: The shorter the set time, the higher the excitation current will be. Note that an excessively short time may result in insufficient motor flux.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E1-03	Pre-excitation current reference source	385	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Automatic 1: Digital setting								
	Description: Defines the pre-excitation current reference source. Value description: 0: Automatic - The excitation time is shortened based on the maximum current output capacity. 1: Digital setting - The excitation current is determined by E1-04.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-04	Digital setting of pre-excitation current	389	20-400	100	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the excitation current used during pre-excitation. The value 100% corresponds to the rated motor current. Note: This parameter is active only when E1-03 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-05	DC braking current	393	0-100	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the current outputted during DC braking. The value 100% corresponds to the rated motor current. Note: DC braking is active only for asynchronous motors and the OFF1 (decelerate to stop) mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-06	DC braking time at start	397	0.10-100.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the DC braking duration. Note: Long-term braking can ensure that the asynchronous motor is at the zero speed but may result in motor overtemperature.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-07	DC braking time at stop	401	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the DC braking duration at stop. Note: When E1-07 is set to 0, DC braking at stop is disabled. The motor stops based on zero speed threshold. If E1-07 is not set to 0, DC braking at stop is enabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-08	Short circuit braking time at start (reserved)	405	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the short circuit braking time at start (reserved).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-09	Short circuit braking time at stop (reserved)	409	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the short circuit braking time at stop (reserved).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-10	Initial braking speed	1946	0.0-6000.0	30.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: DC braking start when the actual speed in OFF1 stop is lower than this value. If DC braking is started at high speed, the braking torque may be reduced.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-11	Zero speed value	413	0.1-6000.0	30.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of zero speed. Note:								

	Two parameters are involved in determining the motor zero speed. The zero speed condition is considered to be met only after the actual motor speed keeps lower than E1-11 for a period longer than E1-12.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-12	Delay of stop at zero speed	1950	0.00-10.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

Description:
Defines the delay time for the motor to stop at zero speed.

Note:
Two parameters are involved in determining the motor zero speed. The zero speed condition is considered to be met only after the actual motor speed keeps lower than E1-11 for a period longer than E1-12.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-13	Demagnetization time	417	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

Description:
Defines the demagnetization time of the asynchronous motor.

Note:
Wait for the motor to be demagnetized before starting DC braking. The motor rotates freely during demagnetization. When this parameter is set to 0, this step is skipped and DC braking starts directly.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-14	OFF1 stop mode	421	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Coast to stop
1: Decelerate to stop
2: Stop at maximum capacity

Description:
Defines OFF1 stop mode.

Value description:
0: Coast to stop - The IGBT output is blocked directly and the motor coasts to stop.
1: Decelerate to stop - The motor stops after decelerating to 0 based on RFG (ramp function generator) deceleration time in groups C7/C8.
2: Stop at maximum capacity - The motor decelerates to zero based on the maximum output capacity. The motor torque or current may reach the limit during deceleration.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-15	OFF3 stop time	425	0.0-1000.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the stop time of OFF3. Note: After OFF3 (Decelerate to stop) mode is activated, the motor speed reference is set to 0 forcibly. No arc exists during deceleration and the IGBT is blocked after zero speed is reached.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-16	OFF3 stop mode	429	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Decelerate to stop 1: Stop at maximum capacity								
	Description: Defines OFF3 stop mode. Value description: 0: Decelerate to stop - The motor stops after decelerating to 0 according to the stop time defined by E1-15. 1: Stop at maximum capacity - The motor decelerates to zero based on the maximum output capacity. The motor torque or current may reach the limit during deceleration.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-17	Stop mode during operation	433	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: OFF1 stop 1: OFF2 stop 2: OFF3 stop								
	Description: Defines the mode of stop during operation. Value description: 0: OFF1 stop - See E1-14 for details. 1: OFF2 stop - The motor coasts to stop. The IGBT output is blocked forcibly after receiving the command. 2: OFF3 stop - See E1-16 for details.								

	Note: In the torque control mode, the stop mode allowed during operation is not related to E1-18.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E1-18	Stop mode in torque control	437	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: OFF1 stop 1: OFF2 stop 2: OFF3 stop								
	Description: Defines the stop mode in the torque control mode. Value description: 0: OFF1 stop - See E1-14 for details. 1: OFF2 stop - The motor coasts to stop. The IGBT output is blocked forcibly after receiving the command. 2: OFF3 stop - See E1-16 for details. Note: In the torque control mode, the stop mode of the OFF1 stop command is related to E1-18.								

E2 Limits

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-00	Lower limit of jump frequency 1	441	0-600	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the lower limit of jump frequency 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-01	Upper limit of jump frequency 1	445	0-600	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the upper limit of jump frequency 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E2-02	Lower limit of jump frequency 2	449	0-600	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the lower limit of jump frequency 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-03	Upper limit of jump frequency 2	453	0-600	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the upper limit of jump frequency 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-04	Positive speed limit	457	0-600	600	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the positive speed limit to limit the maximum speed in forward run. The value 100% corresponds to the per-unit speed of d3-02 (synchronous speed).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-05	REV speed limit	461	-600 to 0	-600	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the negative speed limit to limit the maximum speed in reverse run. The value 100% corresponds to the per-unit speed of d3-02 (synchronous speed).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-06	Positive speed limit selection	465	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0.0% 1: 600.0% 2: AI1 3: AI2 4: HDI1 5: HDI2 6: None 7: None 8: None 9: None 10: None Others: K connector								
	Description: Defines the positive speed limit to limit the maximum speed in forward run. The value 100% corresponds to the per-unit speed of d3-02 (synchronous speed).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-07	Negative speed limit selection	469	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0.0% 1: 600.0% 2: AI1 3: AI2 4: HDI1 5: HDI2 6: None 7: None 8: None 9: None 10: None Others: K connector								
	Description: Defines the negative speed limit to limit the maximum speed in reverse run. The value 100% corresponds to the per-unit speed of d3-02 (synchronous speed).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-08	Digital setting of torque upper limit	473	0-400	150	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of torque upper limit. Note: 1. The forward direction of motor rotation is the positive direction of torque. The lower one between E2-08 and E2-10 is used as the torque upper limit. The positive and negative signs must be taken into account during torque limit setting. You can view the torque upper limit through U6-18. 2. The motor torque limit is active only in vector control modes (including FVC and SVC). It is inactive in V/f mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-09	Digital setting of torque lower limit	477	-400 to 0	-150	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of torque lower limit. Note: 1. The reverse direction of motor rotation is the negative direction of torque. The higher one between E2-09 and E2-11 is used as the torque lower limit. The positive and negative signs must be taken into account during torque limit setting. You can view the torque lower limit through U6-19. 2. The motor torque limit is active only in vector control modes (including FVC and SVC). It is inactive in V/f mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-10	Torque upper	481	Refer to	1	Unsigned	1	Real time	General	Effective

	limit reference selection		"Value"		16 bit		changes	user	in real time
	Value: 0: 0% 1: 400.0% 2: AI1 3: AI2 4: HDI1 5: HDI2 6: None 7: None 8: None 9: None 10: None Others: K connector								
	Description: Defines the torque upper limit reference selection. Note: 1. The forward direction of motor rotation is the positive direction of torque. The lower one between E2-08 and E2-10 is used as the torque upper limit. The positive and negative signs must be taken into account during torque limit setting. You can view the torque upper limit through U6-18. 2. The motor torque limit is active only in vector control modes (including FVC and SVC). It is inactive in V/f mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-11	Torque lower limit reference selection	485	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0.0% 1: -400.0% 2: AI1 3: AI2 4: HDI1 5: HDI2 6: None 7: None 8: None 9: None 10: None Others: K connector								
	Description: Defines the torque lower limit reference selection. Note: 1. The reverse direction of motor rotation is the negative direction of torque. The higher one between E2-09 and E2-11 is used as the torque lower limit. The positive and negative signs must be taken into account during torque limit setting. You can view the torque lower limit through U6-19. 2. The motor torque limit is active only in vector control modes (including FVC and SVC). It is inactive in V/f mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-12	Torque upper limit coefficient in speed tuning	2528	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 100% Others: K connector								
	Description:								

	Defines the torque upper limit coefficient in speed tuning. Note: The default value is 100%. E2-12 x torque upper limit (U6-18) is used to limit the PID output torque upper limit.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-13	Torque lower limit coefficient in speed tuning	2532	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 100% Others: K connector								
	Description: Defines the torque lower limit coefficient in speed tuning. Note: The default value is 100%. E2-13 x torque upper limit (U6-19) is used to limit the PID output torque lower limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-14	Generating power limit	489	0-400	200	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the generating power limit. Note: 1. The power limit is determined by the power limit value and the power limit coefficient. 2. This parameter defines the maximum regenerative power during generating. When E2-16 is inhibited, the generating power is limited to E2-14. When E2-16 is enabled, the generating power is limited to E2-14 x E2-17.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-15	Motoring power limit	493	0-400	200	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the motoring power limit. Note: 1. The power limit is determined by the power limit value and the power limit coefficient. 2. This parameter defines the maximum regenerative power during generating. When E2-18 is inhibited, the generating power is limited to E2-15. When E2-18 is enabled, the generating power is limited to E2-1 x E2-19.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E2-16	Generating power limit coefficient	2573	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to enable the generating power limit coefficient. Note: 1. The power limit is determined by the power limit value and the power limit coefficient. 2. This parameter defines the maximum regenerative power during generating. When E2-16 is inhibited, the generating power is limited to E2-14. When E2-16 is enabled, the generating power is limited to E2-14 x E2-17.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-17	Generating power limit coefficient	2581	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 100% Others: K connector								
	Description: Defines the generating power limit coefficient. Note: 1. The power limit is determined by the power limit value and the power limit coefficient. 2. This parameter defines the maximum regenerative power during generating. When E2-16 is inhibited, the generating power is limited to E2-14. When E2-16 is enabled, the generating power is limited to E2-14 x E2-17.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-18	Motoring power limit coefficient	2577	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description:								

	Used to enable motoring power limit coefficient. Note: 1. The power limit is determined by the power limit value and the power limit coefficient. 2. This parameter defines the maximum regenerative power during generating. When E2-18 is inhibited, the generating power is limited to E2-15. When E2-18 is enabled, the generating power is limited to E2-1 x E2-19.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E2-19	Motoring power limit coefficient	2585	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 100% Others: K connector								
	Description: Defines the motoring power limit coefficient. Note: 1. The power limit is determined by the power limit value and the power limit coefficient. 2. This parameter defines the maximum regenerative power during generating. When E2-18 is inhibited, the generating power is limited to E2-15. When E2-18 is enabled, the generating power is limited to E2-1 x E2-19.								

E3 V/f control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-00	V/f mode selection	497	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: V/f curve 1: Separated V/f								
	Description: Defines the control mode of V/f control. Value description: 0: V/f curve - The curve selected by E3-01 is used for control. 1: Separated V/f - The output voltage of the drive is independent of the frequency. The output frequency is determined by the frequency source. The output voltage source is set by E3-46. If the set separation voltage changes, you can set the V/f separation voltage change time through E3-47/E3-48 to prevent sudden voltage change.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E3-01	V/f curve selection	501	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Linear V/f 1: Multi-point V/f 2: Square V/f 3: 1.2th power V/f 6: 1.6th power V/f 8: 1.8th power V/f								
	Description: Defines the curve selection when V/f curve is used. This parameter is active when E3-00 is set to 0. Value description: 0: Linear V/f - When the motor runs at a rated frequency, a linear relationship is kept between the output voltage and the frequency. It is applicable to common constant torque load. 1: Multi-point V/f - It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3. 2: Square V/f - Applicable to centrifugal loads such as wind turbines and water pumps. The voltage is proportional to the square of the frequency. 3: 1.2th power V/f - The voltage is proportional to 1.2th power of the frequency, which is between linear and square V/f. 6: 1.6th power V/f - The voltage is proportional to 1.6th power of the frequency, which is between linear and square V/f. 8: 1.8th power V/f - The voltage is proportional to 1.8th power of the frequency, which is between linear and square V/f.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-02	Frequency point 1 of multi-point V/f curve	505	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: This parameter is active when E3-00 is set to 0 and E3-01 is set to 1. Note: It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-03	Voltage point 1 of multi-point V/f curve	509	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: This parameter is active when E3-00 is set to 0 and E3-01 is set to 1.								

	Note: It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-04	Frequency point 2 of multi-point V/f curve	513	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： This parameter is active when E3-00 is set to 0 and E3-01 is set to 2. Note: It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-05	Voltage point 2 of multi-point V/f curve	517	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： This parameter is active when E3-00 is set to 0 and E3-01 is set to 2. Note: It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-06	Frequency point 3 of multi-point V/f curve	521	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： This parameter is active when E3-00 is set to 0 and E3-01 is set to 3. Note: It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E3-07	Voltage point 3 of multi-point V/f curve	525	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: This parameter is active when E3-00 is set to 0 and E3-01 is set to 3. Note: It is applicable to special loads such as dehydrators and centrifuges. You can set custom frequency/voltage point for the V/f curve through E3-02 to E3-07. The multi-point V/f curve is set based on the motor load characteristics. The relationship among the three voltage points and frequency points must be as follows: V1≤V2≤V3，F1<F2<F3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-08	V/f softening function	2454	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to enable the V/f softening function. Note: The V/f softening function is generally used for load distribution when the load is driven by two or motor motors. This function serves to rectify uneven distribution of load due to speed difference between two or more motors.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-09	V/f softening coefficient	2458	0-50	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the V/f softening coefficient. Note: The frequency of V/f softening is proportional to the softening coefficient and the motor load torque. The frequency of V/f softening is based on the rated motor frequency. Motor softening adjustment = (-1) x Motor output torque x Rated motor frequency x [E3-09]								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-10	Imax control	529	Refer to	0	Unsigned	1	Real time	General	Effective

			"Value"		16 bit		changes	user	in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable Imax control. Note: After Imax control is enabled, if the output current of the drive reaches the motor overcurrent suppression threshold during motor acceleration, the output frequency of the drive starts to decrease. The frequency starts to accelerate again to the target frequency after the current falls below the overcurrent suppression threshold. Therefore, the actual acceleration time is automatically prolonged. If the actual acceleration time cannot meet the requirements, increase the value of E3-11 properly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-11	Frequency regulation scaling for Imax control	533	0-100	20	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the frequency regulation scaling for Imax control.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-12	Flux weakening coefficient for Imax control	537	0-200	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the flux weakening coefficient for Imax control.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-13	V/f torque boost mode	541	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Manual 2: Auto								
	Description: Defines the V/f torque boost mode to increase the load-carrying capacity at low speed under V/f control. Value description: 0: Disabled								

	1: Manual - The voltage boost value and frequency range for active torque boost are set manually through E3-14...E3-16. The boost value is active when the output frequency is lower than E3-16. Otherwise, it is inactive. 2: Automatic - The drive automatically calculates the voltage compensation value based on motor parameters. Note that before using this function, ensure that the motor parameter auto-tuning function is used to ensure the motor parameter accuracy. Note: Setting E3-13 to enable this function and select the torque boost mode. In V/f separation mode and multi-point V/f, the torque boost is inactive.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-14	Manual torque boost at constant speed in V/f mode	545	0-25	1	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the manual torque boost at constant speed in V/f mode. Value description: In the case of manual torque boost, the voltage can be compensated by torque boost set by E3-14. When the load is heavy and the starting torque of the motor is insufficient, the value of E3-14 can be increased. Note that an excessively high setpoint can easily result in motor overtemperature and drive overcurrent.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-15	Manual torque boost at acceleration in V/f mode	549	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the manual torque boost at acceleration in V/f mode. Value description: To further improve the acceleration capability of the motor at low speed, the voltage boost during motor acceleration can be set through E3-15. This part of the boost voltage takes effect only during acceleration.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-16	Cut-off frequency of torque boost in V/f mode	553	0-100	100	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the cut-off frequency of torque boost in V/f mode. Value description:								

	E3-16 defines the cut-off frequency of torque boost. If the frequency is lower than this value, the boost is enabled; otherwise, it is disabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-17	V/f slip compensation coefficient	557	0-300	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Adjust the compensation frequency by setting E3-17. Note: When the coefficient is set to 100%, the compensation slip is the rated slip of the motor when the rated load is applied to the motor. When the coefficient is set to 0, the slip compensation function is disabled. When adjusting the V/f slip compensation gain, check that the motor speed under the rated load is the same as the target motor speed. If they are different, adjust this parameter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-18	Filter time of V/f slip compensation	561	0.000-2.000	0.500	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: E3-18 can define the V/f slip compensation filter time. Note: The lower the setpoint, the faster the slip compensation response will be, but an excessively low setpoint can cause oscillation or instability during motor dynamic process.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-19	Starting frequency of V/f slip compensation	565	0.0-50.0	2.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: E3-19 defines the starting frequency for V/f slip compensation. Note: When the operating frequency is higher than this frequency, the slip compensation is active; otherwise, it is inactive.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-20	V/f oscillation suppression mode	569	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Disabled 1: Enabled
	Description: Defines the V/f oscillation suppression mode. Note: 1. During operation of the motor, system oscillation that caused by mechanical resonance can be suppressed through E3-20. 2. When oscillation suppression function is enabled, the rated current and no-load current of the motor must be as accurate as possible to ensure the V/f oscillation suppression effect. 3. If oscillation cannot be suppressed effectively after this function is enabled, ensure that the cut-off frequency (E3-23) is lower than the motor oscillation frequency.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-21	V/f oscillation suppression gain	573	0-2000	20	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the V/f oscillation suppression gain. Note: E3-21 is the V/f oscillation suppression gain, which must be as low as possible to minimize the impact on operation, provided that the oscillation can be effectively suppressed. When the oscillation is obvious, it is necessary to increase the gain. The higher the gain, the better the suppression effect will be.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-23	Cut-off frequency of V/f oscillation suppression	581	0.5-50.0	2.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the cut-off frequency of V/f oscillation suppression. Note: When the effective frequency of oscillation suppression is lower than this frequency, the suppression is active; otherwise, it is inactive.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-24	V/f over-excitation gain	585	0-200	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the over-excitation gain in V/f mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-25	Energy-saving control in V/f mode	589	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enable energy-saving control in V/f mode. Note: Energy-saving control is applicable to applications where the motor is in light-load operation for a long time. After this function is enabled, when the motor runs with low load, the drive reduces the output voltage continuously to lower the exciting current to reduce energy consumption.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-28	Frequency modulation proportional coefficient for Vdc control in V/f mode	901	1-100	30	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the frequency modulation proportional coefficient for Vdc control in V/f mode. Note: The VdcMax control and VdcMin control use a common PI controller. The PI controller parameter gain is calculated automatically. The internal PI parameters can be modified by adjusting E3-28 and E3-29 based on the default values. In the case of excessive overshoot during bus voltage regulation, increase the value of E3-28.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-29	Frequency modulation integral coefficient for Vdc control in V/f mode	905	10-8000	250	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the frequency modulation integral coefficient for Vdc control in V/f mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-30	Vdc_max control switch in V/f mode	1970	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable Vdc_max control in V/f mode. Note: When Vdxmax function is enabled and the bus voltage rises to the setpoint (bus overvoltage threshold-Vdcmax voltage margin E3-31), the drive stabilize the bus voltage through adjusting the output frequency to suppress voltage rise.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-31	Vdc_max voltage margin in V/f mode	897	20.0-300.0	100.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the Vdc_max voltage margin in V/f mode. Note: When Vdxmax function is enabled and the bus voltage rises to the setpoint (bus overvoltage threshold-Vdcmax voltage margin E3-31), the drive stabilize the bus voltage through adjusting the output frequency to suppress voltage rise.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-32	Vdc_max voltage regulation gain coefficient in V/f mode	909	0-100	30	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines Vdc_max voltage regulation gain coefficient in V/f mode. Note: In the case of excessive overshoot during bus voltage regulation, increase the value of E3-32.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-33	Vdc_max frequency rise limit in V/f mode	913	1.0-30.0	5.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines Vdc_max frequency rise limit in V/f mode. Note: After this function is enabled, the actual deceleration time will be automatically prolonged. If the actual deceleration time								

	cannot meet the requirements, increase the value of E3-24 [V/f over-excitation gain] properly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-34	Oscillation suppression gain for Vdc control in V/f mode	917	0-500	60	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the oscillation suppression gain for Vdc control in V/f mode. Note: E3-34 is used by VdcMax control and VdcMin control. If the bus voltage oscillates during Vdc control, you can adjust E3-34.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-35	Feedforward gain for Vdc control in V/f mode	921	0-500	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the feedforward gain for Vdc control in V/f mode. Note: E3-35 is used by VdcMax control and VdcMin control. In the case of excessive overshoot during bus voltage regulation, increase the value of E3-35.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-36	Vdc_min control switch in V/f mode	1974	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to set the Vdc_min control switch in V/f mode. Note: When Vdcmin function is enabled, the undervoltage fault can be suppressed for a short period of time to allow power dip ride-through. When the power supply or DC bus powers down for a long time, you can enable Vdcmin function to compensate the energy loss on the bus until each motor stops properly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-37	Minimum operating	933	0.0-50.0	5.0	Unsigned	0.1	Real time	General	Effective

	frequency for Vdc_min control in V/f mode				16 bit		changes	user	in real time
	Description: Defines the minimum operating frequency for Vdc_min control in V/f mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-38	Vdc_min voltage margin in V/f mode	937	20.0-300.0	50.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the Vdc_min voltage margin in V/f mode. Note: The Vdcmin function is used to set the motor to the generating state when the bus voltage detected is lower than the allowable value (undervoltage threshold+Vdcmin voltage margin E3-38), so as to compensate the energy loss to stabilize the DC bus voltage.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-39	Vdc_min voltage recovery judgment time in V/f mode	941	0.1-100.0	1.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the Vdc_min voltage recovery judgment time in V/f mode. Note: When Vdc_Min control is active in V/f mode, the bus voltage recovers. When such status lasts for the time set by this parameter, the drive exits the Vdc-min control state.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-40	Vdc control dynamic coefficient in V/f mode	945	0-300	100	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the dynamic coefficient for Vdc control in V/f mode. Note: E3-40 is used by VdcMax control and VdcMin control. The E3-40 acts on both the PI controller proportional coefficient and integral coefficient. Generally, this parameter is set based on the ratio between the actual bus capacitance and the capacitance of the power module.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E3-45	Separated V/f mode selection	6323	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Frequency fixed/voltage accelerated based on ramp 1: Frequency/Voltage accelerated/decelerated based on separate ramps								
	Description: Defines the separated V/f mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-46	Separated V/f voltage reference	593	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 100.0% 2: AI1 3: AI2 4: HDI1 5: HDI2 Others: K connector								
	Description: Defines the separated V/f voltage reference.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-47	Voltage acceleration time of separated V/f	597	0.0-1000.0	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the voltage acceleration time of separated V/f.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E3-48	Voltage deceleration time of separated V/f	6327	0.0-1000.0	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the voltage deceleration time of separated V/f.								

E4 Speed regulator

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E4-00	Speed filter time for motor vector control	601	0-10000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the speed filter time for motor vector control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-01	Speed filter time feedback for motor vector control	605	0-10000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the speed filter time feedback for motor vector control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-02	Speed loop Kp in FVC mode	609	0.00-200.00	3.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the speed loop Kp in FVC mode. Note: 1. Kp and Ki of PI regulator of the speed loop can be optimized through complete no-load auto-tuning (b5-00 = 2). If the moment of inertia is known, you can set d2-02 and set b5-02 to 2, and then set b5-03 to 1. 2. If the feedback speed is still oscillating after optimization, you need to manually optimize the controller parameters.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-03	Speed loop Ti in FVC mode	613	1-10000	500	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the speed loop Ti in FVC mode. Note: 1. Kp and Ki of PI regulator of the speed loop can be optimized through complete no-load auto-tuning (b5-00 = 2). If the moment of inertia is known, you can set d2-02 and set b5-02 to 2, and then set b5-03 to 1. 2. If the feedback speed is still oscillating after optimization, you need to manually optimize the controller parameters.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-04	SVC speed loop Kp	617	0.00-200.00	3.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the speed loop Kp in SVC mode. Note: 1. Kp and Ki of PI regulator of the speed loop can be optimized through complete no-load auto-tuning (b5-00 = 2). If the moment of inertia is known, you can set d2-02 and set b5-02 to 2, and then set b5-03 to 1. 2. If the feedback speed is still oscillating after optimization, you need to manually optimize the controller parameters.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-05	SVC speed loop Ti	621	1-10000	500	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the speed loop Ti in SVC mode. Note: 1. Kp and Ki of PI regulator of the speed loop can be optimized through complete no-load auto-tuning (b5-00 = 2). If the moment of inertia is known, you can set d2-02 and set b5-02 to 2, and then set b5-03 to 1. 2. If the feedback speed is still oscillating after optimization, you need to manually optimize the controller parameters.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-06	Adaptive source of speed loop Kp	625	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable Others: K connector								
	Description: Defines the adaptive source of speed loop Kp. Value description: 0: Disable Others: K connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-07	Lower limit of ASR Kp adaptive switchover	629	0-400	25	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the adaptive switchover lower limit of the speed loop Kp. For details, see the function guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-08	Adaptive	633	0-400	25	Unsigned	0.1	Real time	General	Effective

	correction lower limit of speed loop Kp				16 bit		changes	user	in real time
	Description: Defines the adaptive correction lower limit of speed loop Kp. For details, see the function guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-09	Adaptive switchover upper limit of speed loop Kp	637	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the adaptive switchover upper limit of speed loop Kp. For details, see the function guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-10	Adaptive correction upper limit of speed loop Kp	641	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the adaptive correction upper limit of speed loop Kp. For details, see the function guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-11	Low frequency switchover of speed loop	645	0-400	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the frequency for low frequency switchover of the speed loop. For details, see the function guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-12	High frequency switchover of speed loop	649	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the frequency for high frequency switchover of speed loop. For details, see the function guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-13	Correction coefficient for high frequency switchover of speed loop	653	0-1600	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description: Defines the correction coefficient for high frequency switchover of speed loop. Note: When the operating frequency of the motor is higher than E4-12, the speed loop parameter is the current active parameter x E4-13.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-14	Softening function enable	2341	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Disable	4: DI3	8: DIL
1: Enable	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2
3: DI2	7: DI6	Others: B connector

Description:
Used to enable the softening function.

Value description:
0: Disable - The softening function is disabled.
1: Enable - The softening function is enabled.
2: DI1
3: DI2
4: DI3
5: DI4
6: DI5
7: DI6
8: DIL
9: HDI1
10: HDI2
Others: B connector

Note:
Softening (droop) control is a control method that uses the output torque of the motor for negative feedback to reduce the motor speed. It features low control accuracy but high stability and simple application. This function is widely used in belt conveyors, roller tables or continuous casting machines.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-15	Softening function	657	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Inactive 1： General torque setting 2： Speed regulation output 3： Integral component of speed regulation
	Description： Used to select the input value for softening calculation. Value description: 0: Inactive - The softening function is disabled. 1: General torque setting - Corresponds to U6-12 [Torque setpoint limited]. 2: Speed regulation output - Corresponds to U6-22 [Speed regulation PID output]. 3: Speed regulation integral component - Corresponds to U6-24 [Speed regulation PID integral part].

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-16	Softening coefficient	661	0-50	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the softening coefficient. Note: Speed softening output U6-08 = E4-16 x E4-15 x rated motor frequency. When E4-15 = 10%, the speed is reduced by E4-16 x 0.1 x rated motor frequency.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-17	Softening gain source	1680	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 160% Others： K connector								
	Description： Defines the softening gain source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-18	Source of forced speed loop integral	669	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disabled 1： Enabled 2： DI1 4： DI3 5： DI4 6： DI5 8： DIL 9： HDI1 10： HDI2								

	3：DI2		7：DI6			Others：B connector			
	Description： Defines the source of forced integral of speed loop. Note: After forced integral is enabled, the integral output value will be forcibly set to the value of the word connector defined by E4-19.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-19	Source of forced speed loop integral value	673	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the source of forced integral value of speed loop. Note: When E4-18 is enabled, the forced integral value set by E4-19 is activated.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-20	Source of speed loop integral freezing	665	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Run 1：Freezing 2：DI1 3：DI2		4：DI3 5：DI4 6：DI5 7：DI6			8：DIL 9：HDI1 10：HDI2 Others：B connector			
	Description： Defines the source for freezing the speed loop integral. Note: After integral freezing is enabled, the integral output value will be fixed to the value of the previous cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-22	Acceleration torque source	685	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0: Disabled 1: RFG feedforward 2: Feedback speed derivative 3: Position control feedforward
	Description: Defines the acceleration torque source. Note: Take control channel 1 as an example. After setting E4-22 to 1/C1-10 to 1/E4-23 to 100%, accurate acceleration torque can be obtained. You can view current acceleration torque value through U6-25/U6-27.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-23	Feedforward torque coefficient	689	0-400	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the feedforward torque coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-24	Encoder feedback speed filter selection	693	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: No filter 1: Second-order low-pass filter 2: Notch filter								
	Description: Defines the encoder feedback speed filter method.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-25	Encoder feedback speed filter time	697	0-1000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the encoder feedback speed filter time.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-26	Current filter for torque reference	677	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：No filter 1：Low-pass filter
	Description： Used to select the current filter for torque reference.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-27	Current filter time for torque reference	681	0-1000	5	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the current filter time for torque reference.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-30	Load observation	2556	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Disable 1：Enable								
	Description： Defines whether to enable load observation. Note: The torque output of the load observer module can be viewed in U6-39. The value 100% corresponds to the rated motor torque.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-31	Proportional gain tuning coefficient of load observer	2560	0-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the proportional gain tuning coefficient of load observer.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-32	Integral gain tuning coefficient of load observer	2564	0-1000	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the integral gain tuning coefficient of load observer.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E4-33	Inertia tuning coefficient of load observer	2568	20-1000	100	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines inertia tuning coefficient of load observer.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-34	Model feedforward	6438	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable model feedforward.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-35	Model feedforward gain	6442	0.0-30.0	3.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the model feedforward gain.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-36	Low torque for model feedforward	6446	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable low torque for model feedforward.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-41	Kp coefficient at zero speed	6774	0-600	70	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Kp coefficient at zero speed. Note:								

	At low speed, the speed loop proportional coefficient Kp must be multiplied by the low speed change coefficient as the final effective Kp. The low-speed change coefficient is calculated as follows: When the speed is lower than E4-43, the coefficient equals to E4-42. When the speed is higher than E4-42, the coefficient is 100%. When the speed is between E4-42 and E4-43, the coefficient changes linearly.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-42	Starting speed of Kp switchover at zero speed	6778	1-600	3	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the starting speed of Kp switchover at zero speed. Note: At low speed, the speed loop proportional coefficient Kp must be multiplied by the low speed change coefficient as the final effective Kp. The low-speed change coefficient is calculated as follows: When the speed is lower than E4-43, the coefficient equals to E4-42. When the speed is higher than E4-42, the coefficient is 100%. When the speed is between E4-42 and E4-43, the coefficient changes linearly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E4-43	Speed for completing Kp switchover at zero speed	6782	0-3	1	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the speed for completing Kp switchover at zero speed. Note: At low speed, the speed loop proportional coefficient Kp must be multiplied by the low speed change coefficient Coff as the final effective Kp. The low-speed change coefficient Coff is calculated as follows: When the speed is lower than E4-43, Coff = E4-42. When the speed is higher than E4-42, Coff = 100%. When the speed is between E4-42 and E4-43, the coff changes linearly.								

E5 Current regulator

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-00	Actual proportion of current loop	33880	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the effective proportional coefficient of the current loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-01	Actual integral time of current loop	33881	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Defines the effective integral time of current loop.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-02	Theoretical proportion of current loop	33878	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays theoretical proportional coefficient of current loop.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-03	Theoretical integral time of current loop	33879	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Defines the theoretical integral time of current loop.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-04	Current loop proportional coefficient	717	1-1000	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the current loop proportional coefficient. Note: This parameter is used to adjust the effective proportional coefficient Kp of the current loop.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-05	Integral coefficient of current loop	721	1-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the integral coefficient of current loop. Note: This parameter is used to adjust the effective integral coefficient Ki of the current loop.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E5-06	Adaptive proportion of current loop	725	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enable adaptive proportion of the current loop. Value description: 0: Disabled - The adaptive current loop proportional coefficient is inactive. 1: Enable - The adaptive current loop proportional coefficient is enabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-07	Adaptive current lower limit of current loop proportion	729	1-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the adaptive current lower limit of current loop proportional coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-08	Adaptive current upper limit of current loop proportion	733	1-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the adaptive current upper limit of current loop proportional coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-09	Adaptive upper limit coefficient of current loop proportion	737	1-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the adaptive coefficient of current loop proportional coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E5-10	Derivative coefficient of current loop	741	0-1000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	feedforward								
E5-11	Adaptive control gain of d-axis current	1684	0-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
E5-12	Adaptive control gain of q-axis current	1688	0-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

E6 Excitation control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-00	Flux setting coefficient	1033	50-200	100	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Used to adjust the magnetic flux of the asynchronous motor. The value 100% corresponds to the rated magnetic flux of the motor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-01	Flux reference filter time	745	0-10000	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Used to adjust the filter time of the designed flux value of the asynchronous motor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-02	Reserved voltage margin	749	0-50	3	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the voltage margin. Note: Decreasing the setpoint improves voltage utilization, allowing lower current at the same load in the field weakening range. Note that an excessively low setpoint can affect dynamic performance.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-03	Minimum flux threshold at start	753	20-100	70	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time

E6-04	Excitation derivative coefficient	757	0-400	100	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Used to adjust the response speed during flux change.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-05	Flux controller	761	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-06	Efficiency optimization	765	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable efficiency optimization of the asynchronous motor. Value description: 0: Disable - Efficiency optimization disabled 1: Enable - Efficiency optimization enabled								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-07	Minimum flux for efficiency optimization	769	50-100	70	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the minimum flux for efficiency optimization. Note: When efficiency optimization control of asynchronous motor is enabled (E6-06 = 1), the lower the setpoint, the more energy will be saved at no load operation. However, this can affect the dynamic responsiveness after loading.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-08	Additional filter time for efficiency	773	0-1000	4	Unsigned	1	Real time	General	Effective in real

	optimization				16 bit		changes	user	time
	Description: Defines the additional filter time for efficiency optimization. Note: When asynchronous motor energy optimization control is active (E6-06 = 1), you can reduce the value of this parameter to improve dynamic responsiveness, preventing excessive speed drop during sudden loading. When the output current fluctuates greatly, increase this value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-09	Time for exiting filter during efficiency optimization	777	0-1000	20	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the time for exiting filter during efficiency optimization. Note: When asynchronous motor energy optimization control is active (E6-06 = 1), you can reduce the value of this parameter to allow the output current to be reduced quickly after the load is reduced. When the output current fluctuates greatly, increase this value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-11	Synchronous motor flux weakening curve enable	1672	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable flux weakening curve of the synchronous motor. Value description: 0: Disabled - The flux weakening curve is disabled. 1: Enabled - The flux weakening curve is enabled. Note: Enabling the flux weakening curve can improve the dynamic responsiveness in the flux weakening range.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E6-13	Maximum demagnetization current limit of	2187	0-200	150	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	synchronous motor								
	Description: Defines the maximum demagnetization current during limited operation of the synchronous motor.								

E7 Flying start

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E7-00	Speed tracking current Kp	781	0.5-2.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the integral coefficient for controlling the output current during speed tracking.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E7-01	Speed filter for speed tracking mode 0	785	5-50	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the speed filter of speed tracking mode 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E7-02	Filter cut-off frequency of speed tracking mode 0	789	0.1-50.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the filter cut-off frequency of speed tracking mode 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E7-03	Current reference of speed tracking mode 0	793	20-80	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the current reference of speed tracking mode 0. Note: E7-03 is used to set the current during speed tracking. The value 100% corresponds to the rated drive current. If the speed is in the flux weakening zone and cannot be tracked, reduce the value of E7-03.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E7-04	Time of speed	797	50-	1000	Unsigned	1	Real time	General	Effective in

	tracking mode 0		5000		16 bit		changes	user	real time
	Description: Defines the time of speed tracking mode 0. Note: If speed tracking is not done within the set time, a fault will be reported.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E7-06	Phase-locked loop proportional coefficient	3892	0-400	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the proportional coefficient of the phase-locked loop during speed tracking of the synchronous motor. Increasing this coefficient can quicken the phase-lock time.								

E8 Protection

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-00	Motor overload software protection	801	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enabled motor overload software protection. Value description: 0: Disabled - Without the motor overload protection function, the motor may be damaged due to overtemperature. It is recommended to install a thermal relay between the drive and the motor. 1: Enabled - The drive judges whether the motor is overloaded according to the inverse time lag curve of the motor overload protection. Note: The upper limit of motor overload protection is 80 minutes and the lower limit is 10s.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E8-01	Software protection gain for motor overload	805	20-1000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the software protection gain for motor overload. Note: The default motor overload curve may not match the actual motor overload characteristics. You can adjust the overload curve through E8-01. For the same current, the actual overload protection time is the time corresponding to the default curve multiplied by the motor overload software protection gain.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-02	Motor overload pre-alarm coefficient	809	50-100	80	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the motor overload pre-alarm coefficient. Note: The motor overload pre-alarm coefficient is used to send an alarm signal in advance before a motor overload fault occurs. The lower the coefficient, the higher the advance value will be. If it is set to 100%, the pre-overload alarm and overload fault occur simultaneously.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-03	Motor overload base current coefficient	813	50-300	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the motor overload base current coefficient. Note: This coefficient is used to modify the current base value that used to determine motor overload. Under normal conditions, the current base value is d3-01. In motor overload protection, the current base value is E8-03 x d3-01.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-04	Overspeed detection value	817	0-50	20	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real

									time
	Description： Defines the overspeed detection value. Note: The motor overspeed (F43-1) is triggered and the overspeed (U1-77) is set to 1 in the following two conditions. The actual motor operating speed keeps exceeding the positive speed limit U9-18 + E8-04 for a period longer than E8-05 + E8-41. The actual motor operating speed keeps lower than the negative speed limit U9-19 - E8-04 for a period longer than E8-05 + E8-41.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-05	Overspeed detection time	821	0.0-60.0	0.5	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the overspeed detection time. Note: The motor overspeed (F43-1) is triggered and the overspeed (U1-77) is set to 1 in the following two conditions. The actual motor operating speed keeps exceeding the positive speed limit U9-18 + E8-04 for a period longer than E8-05 + E8-41. The actual motor operating speed keeps lower than the negative speed limit U9-19 - E8-04 for a period longer than E8-05 + E8-41.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-06	Detection value for excessive speed deviation	825	0-600	6	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the detection value for excessive speed deviation. Note: 1. If the deviation between the actual motor speed and speed reference keeps higher than the threshold defined by E8-06 during normal operation or decelerate-to-stop in speed control mode for a period longer than the time defined by E8-07, F42-1 (Excessive motor speed deviation) is triggered. 2. You can view the value through U1-28 [Excessive speed deviation].								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E8-07	Detection time for excessive speed deviation	829	0.0-600.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the detection time for excessive speed deviation. Note: 1. If the deviation between the actual motor speed and speed reference keeps higher than the threshold defined by E8-06 during normal operation or decelerate-to-stop in speed control mode for a period longer than the time defined by E8-07, F42-1 (Excessive motor speed deviation) is triggered. 2. You can view the value through U1-28 [Excessive speed deviation].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-08	Detection value when comparison value reached	2123	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for speed comparison value. Note: When the feedback speed keeps higher than this value for a period longer than E8-10, U1-09 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-09	Detection hysteresis value when comparison value reached	2127	0-600	3	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the detection hysteresis value when the comparison value is reached. Note: When the feedback speed is lower than E8-08 - E8-09, U1-09 {Comparison value reached] is cleared.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-10	Detection time when comparison value	2131	0.0-100.0	3.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real

	reached								time
	Description: Defines the detection time when comparison value is reached. Note: When the feedback speed is lower than E8-08 - E8-09, U1-09 {Comparison value reached] is cleared.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-11	Leakage current detection	833	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines leakage current detection. Note: When the leakage current detected by the software is higher than the leakage current detection threshold defined by E8-12. F66-2 (Leakage current fault) is triggered and U3-74 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-12	Leakage current detection threshold	837	0-80	30	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the leakage current detection threshold. Note: When the leakage current detected by the software is higher than the leakage current detection threshold defined by E8-12. F66-2 (Leakage current fault) is triggered and U3-74 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-13	Output open circuit detection (reserved)	841	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Disabled 1: Enabled
	Description: Defines the output open circuit detection (reserved).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-14	PG software fault detection	845	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines PG software fault detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-15	VI detection mode	849	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Detected upon power-on	0: Disabled 1: Enabled
Tens-	Detected before operation	0: Disabled 1: Enabled

Description:
Defines VI detection mode.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-16	Bridge arm detection mode	853	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value

Ones-	Detected upon power-on	0: Disabled 1: Enabled	
Tens-	Detected before operation	0: Disabled 1: Enabled	

Description:

Defines the bridge arm detection mode.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-17	Detection mode of output current sensor CM	857	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Detected upon power-on	0: Disabled 1: Enabled
Tens-	Detected before operation	0: Disabled 1: Enabled

Description:

Defines the detection mode of output current sensor CM.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-20	Short-circuit-to-ground detection mode	869	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Detected upon power-on	0: Disabled 1: Enabled
Tens-	Detected before operation	0: Disabled 1: Enabled

Description:

Defines the short-circuit-to-ground detection mode.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-21	Output phase loss	873	Refer to	100	Unsigned	1	Real time	General	Effective

	detection mode		"Value"		16 bit		changes	user	in real time

Value:

Bit	Name	Value
Ones-	Detected upon power-on	0: Disabled 1: Enabled
Tens-	Detected before operation	0: Disabled 1: Enabled
Hundreds-	Detected during operation	0: Disabled 1: Enabled

Description:

Defines the output phase loss detection mode.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-22	Motor temperature detection mode	2407	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Disabled
1: Current PG card KTY84
2: AI1 detects KTY84
3: AI1 detects PT100
4: AI1 detects PT100*2
5: AI1 detects PT100*3
6: AI1 detects PT1000
7: Reserved
8: Reserved
9: AI1 detects PTC
10: Detects PTC of current PG card
11: Reserved
12: AI2 detects KTY84
13: AI2 detects PT100
14: AI2 detects PT100*2
15: AI2 detects PT100*3
16: AI2 detects PT1000
17: Reserved
18: Reserved
19: AI2 detects PTC
20: Reserved
Others: K connector

Description:

Defines motor temperature detection mode.

Note:

When E8-22 is not set to 10 and the detected motor temperature is higher than E8-23, F48-1 is reported. Otherwise, F48-1 is reported when the resistance is higher than 4 kΩ.

When E8-22 is not set to 10 and the detected motor temperature is higher than E8-24, alarms A148-2 and A63-3 are reported. Otherwise, alarms A148-2 and A63-3 are reported when the resistance is higher than 1.3 kΩ.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-23	Motor over-	2411	0-300	130	Unsigned	1	Real time	General	Effective

	temperature protection value				16 bit		changes	user	in real time
	Description: Defines motor over-temperature protection value. Value description: When E8-22 is not set to 10 and the detected motor temperature is higher than E8-23, F48-1 is reported. Otherwise, F48-1 is reported when the resistance is higher than 4 kΩ. When E8-22 is not set to 10 and the detected motor temperature is higher than E8-24, alarms A148-2 and A63-3 are reported. Otherwise, alarms A148-2 and A63-3 are reported when the resistance is higher than 1.3 kΩ.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-24	Motor over-temperature alarm value	2415	0-300	110	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines motor over-temperature alarm value. Value description: When E8-22 is not set to 10 and the detected motor temperature is higher than E8-23, F48-1 is reported. Otherwise, F48-1 is reported when the resistance is higher than 4 kΩ. When E8-22 is not set to 10 and the detected motor temperature is higher than E8-24, alarms A148-2 and A63-3 are reported. Otherwise, alarms A148-2 and A63-3 are reported when the resistance is higher than 1.3 kΩ.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-25	Motor stall detection	2855	Refer to "Value"	1128	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled Others: B connector								
	Description: Used to enable motor stall detection. Value description: 0: Disabled 1: Enabled								

	Others: B connector Note: 1. By default, the motor stall detection enable signal comes from U1-28 (Excessive speed deviation). When U1-28 is active, the stall detection is activated. 2. When E8-25 is set to 1, the torque reaches the torque limit and the feedback speed is lower than the threshold set by E8-26 for period longer than E8-27, F93-1 (Motor stall) fault is reported.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-26	Motor stall speed reference	2552	0-100	6	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the motor stall speed reference. Note: 1. By default, the motor stall detection enable signal comes from U1-28 (Excessive speed deviation). When U1-28 is active, the stall detection is activated. 2. When E8-25 is set to 1, the torque reaches the torque limit and the feedback speed is lower than the threshold set by E8-26 for period longer than E8-27, F93-1 (Motor stall) fault is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-27	Motor stall detection time	2536	0.00-65.00	2.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the motor stall detection time. Note: 1. By default, the motor stall detection enable signal comes from U1-28 (Excessive speed deviation). When U1-28 is active, the stall detection is activated. 2. When E8-25 is set to 1, the torque reaches the torque limit and the feedback speed is lower than the threshold set by E8-26 for period longer than E8-27, F93-1 (Motor stall) fault is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-28	Motor step loss detection	2710	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Disable 1: Enable
	Description: Used to enable motor step loss detection. Note: When E8-28 is set to 1, if the detection deviation exceeds the motor step loss detection threshold defined by E8-29 for a period longer than E8-30 in FVC control mode, the motor step loss fault (F93-2) is triggered.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-29	Motor step loss detection threshold	2714	10-80	20	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the motor step loss detection threshold. Note: When E8-28 is set to 1, if the detection deviation exceeds the motor step loss detection threshold defined by E8-29 for a period longer than E8-30 in FVC control mode, the motor step loss fault (F93-2) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-30	Motor step loss detection time	2718	0.00-10.00	0.50	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the step loss detection time of the motor. Note: When E8-28 is set to 1, if the detection deviation exceeds the motor step loss detection threshold defined by E8-29 for a period longer than E8-30 in FVC control mode, the motor step loss fault (F93-2) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-31	Current control fault detection enable	2742	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Disable 1：Enable
	Description： Defines whether to detect current control error F93-3. Note: If the deviation between the torque/excitation current and the feedback value exceeds E8-32 for a period longer than E8-33, F93-3 (Current control error) is reported.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-32	Current control error detection threshold	2746	10-80	25	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the current control error detection threshold. Note: If the deviation between the torque/excitation current and the feedback value exceeds E8-32 for a period longer than E8-33, F93-3 (Current control error) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-33	Current control error detection time	2750	0-500	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the current control error detection time. Note: If the deviation between the torque/excitation current and the feedback value exceeds E8-32 for a period longer than E8-33, F93-3 (Current control error) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-34	Hysteresis value for target speed reach	2814	0-600	3	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the hysteresis value when target speed is reached.								

	Note: When the actual motor speed (U9-00) reaches RFG speed reference + U9-12 ± hysteresis value for target speed reach (E8-34) for a period longer than E8-35, U1-97 (Target speed reach) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-35	Detection time when target speed is reached	2818	0.0-100.0	3.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the detection time when target speed is reached. Note: When the actual motor speed (U9-00) reaches RFG speed reference + U9-12 ± hysteresis value for target speed reach (E8-34) for a period longer than E8-35, U1-97 (Target speed reach) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-36	Bridge arm auto-inspection pulse ON time	3164	1-500	100	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the bridge arm auto-inspection pulse ON time.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-37	Parallel current sampling error detection	1073	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Used to enable parallel current sampling error detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-38	Motor stall detection time in SVC speed	1069	0.000-	10.000	Unsigned	0.001	Real time	General	Effective in real

	open loop mode		65.000		16 bit		changes	user	time
	Description: Defines the detection time for motor stall in SVC speed open loop mode. Note: If the motor is stalled when SVC speed open loop mode is enabled, 93-5 (Motor stall in SVC speed open loop mode) is triggered.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-39	SVC control error protection	5708	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Used to enable protection against SVC control error.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-40	Motor temperature detection filter time	6798	0-60000	500	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time for motor temperature detection.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-46	Synchronous motor demagnetization protection enable	1602	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Used to enable protection against synchronous motor demagnetization.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E8-47	Synchronous motor demagnetization protection threshold	1606	30-500	300	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for triggering protection against synchronous motor demagnetization. Note: When the transient value of three-phase current during operation of the synchronous motor exceeds E8-47, F2-10 (Transient overcurrent of synchronous motor) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-48	Auto-inspection (b5-01) mode	6344	Refer to "Value"	0x00FF	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	VI detection	0: Invalid 1: Valid
bit1	Bridge arm detection	0: Invalid 1: Valid
bit2	Output current sensor CM detection	0: Invalid 1: Valid
bit3	Braking transistor detection (reserved)	0: Invalid 1: Valid
bit4	Bus capacitance detection (reserved)	0: Invalid 1: Valid
bit5	Short circuit to ground detection	0: Invalid 1: Valid
bit6	Output phase loss detection	0: Invalid 1: Valid
bit7	Current output unbalance detection	0: Invalid 1: Valid
bit8	Reserved	0: Invalid 1: Valid
bit9	Reserved	0: Invalid 1: Valid

bit10	Reserved	0: Invalid 1: Valid	
bit11	Reserved	0: Invalid 1: Valid	
bit12	Reserved	0: Invalid 1: Valid	
bit13	Reserved	0: Invalid 1: Valid	
bit14	Reserved	0: Invalid 1: Valid	
bit15	Reserved	0: Invalid 1: Valid	

Description:

Defines the auto-inspection (b5-01) mode.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-50	Handling mode for encoder fault	2544	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Stop as defined by E8-51

1: Alarm and continue operating in SVC

Others: B connector

Description:

Defines the handling mode for encoder faults.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-51	Stop mode for encoder fault	6367	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: OFF2 stop

1: OFF3 stop

2: OFF1 stop

Description:

Defines the stop mode for encoder faults.

	Note: This parameter is active when E8-50 is set to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-52	Minimum operating speed after encoder fault (SVC)	6371	0-100	3	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum operating speed in SVC mode after encoder fault occurs. Note: When E8-50 is set to 1, the FVC mode switches to SVC mode after the encoder fault occurs, without interrupting the operation. A fault is reported until a stop command is sent or the operating speed is lower than E8-52.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-53	Synchronous motor runaway detection in FVC mode	6786	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enable synchronous motor runaway detection in FVC mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-54	Synchronous motor runaway protection time in FVC mode	6790	0.05-60.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the synchronous motor runaway protection time in FVC mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-55	Synchronous motor runaway protection threshold in FVC	6794	5-600	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real

	mode								time
	Description: Defines synchronous motor runaway protection threshold in FVC mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E8-56	Displacement detection of resolver encoder	5656	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines displacement detection of resolver encoder.								

E9 Vdc control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-00	Automatic calculation of Vdc activation voltage in vector control	881	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Set by parameter 1: Calculated automatically								
	Description: Defines the calculation mode of Vdc activation voltage in vector control. Value description: 0: Set by parameter - The VDC activation voltage is set through E9-02 and E9-05. 1: Calculated automatically - The Vdc activation voltage is obtained by calculating the bus undervoltage value and bus overvoltage threshold: Vdcmin activation voltage = bus undervoltage threshold + 50 V, Vdcmax activation voltage = bus overvoltage threshold - 50 V.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-01	Vdc_max control switch in vector	889	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

	control mode								time
	Value: 0: Disabled 1: Enabled								
	Description: Defines Vdc_max control switch in vector control mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-02	Vdc_max activation voltage in vector control mode	953	110-140	115	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines Vdc_max activation voltage in vector control mode. Note: A2-02 is taken as the reference for Vdcmax activation voltage in vector control. When A2-02 is set to 400 V, Vdcmax activation voltage is calculated as follows by default. VdcMax activation voltage = E9-02 x A2-02 x 1.414 = 650 V								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-03	Vdc_min control switch in vector control mode	925	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines Vdc_min control switch in vector control mode. Value description: 0: Disabled - Vdcmin control is disabled. 1: Enable - Vdcmin control is enabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-04	Vdc_min control cut-off frequency in vector control	1978	0.0-50.0	2.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Cut-off frequency of Vdc_min control in vector control mode Note:								

	This parameter indicates that when the operating frequency is lower than the setpoint of E9-04, the system exists Vdcmin control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-05	Vdc_min excited voltage in vector control mode	949	60-90	80	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Vdc_min activation voltage in vector control mode. Note: A2-02 is taken as the reference for Vdcmin activation voltage in vector control mode. When A2-02 is set to 400 V, the Vdcmin activation voltage is calculated as follows by default: Vdcmin activation voltage = E9-05 x A2-02 x 1.414 = 452.4 V								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-06	Gain tuning coefficient of Vdc control in vector control mode	885	1-1500	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the gain tuning coefficient of Vdc control in vector control mode. Note: E9-06 is used to adjust controller performance dynamically. Vdcmax control and Vdcmin control use the same PI controller. The controller parameter gain is calculated automatically. When the number of paralleled inverters connected to the bus increases, you can adjust E9-06 based on the power proportion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-07	Bus capacitance ratio	1940	100-1500	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the bus capacitance ratio. Note: Controller performance is affected by the number of capacitors connected to the bus when multiple drives share the same bus. The capacitance of the inverter module of the bus is typically proportional to the module power. The aggregate power of all inverters of the bus is 2000 kW if the power of the inverter module is 500 kW. In this case, set this parameter to 400%.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E9-08	Speed deviation threshold for exiting speed tracking in Vdc_min control	6361	0-10	1	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the speed deviation threshold for exiting speed tracking in Vdc_min control. Note: This parameter is inactive when the speed deviation is within the range of E9-08 upon exiting Vdcmin control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-10	DC voltage stabilization control	1658	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled Others: B connector								
	Description: Used to enable DC voltage stabilization control. Value description: 0: Disabled - DC voltage stabilization control is disabled. 1: Enable - DC voltage stabilization control is enabled. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-11	Voltage loop for controlling DC voltage stabilization	1662	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled Others: B connector								
	Description: Used to enable the voltage loop for controlling DC voltage stabilization. Value description: 0: Disabled - The bus voltage loop is disabled. 1: Enable - The bus voltage loop is enabled.								

	Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-14	Voltage reference source in DC voltage stabilization mode	1622	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: E9-15 Others: K connector								
	Description: Defines the voltage reference source in DC voltage stabilization mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-15	Digital setting of voltage in DC voltage stabilization mode	1626	410.0-1200.0	600.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of voltage in DC voltage stabilization mode. Note: This parameter is active when E9-14 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-16	Digital setting of voltage upper limit in DC voltage stabilization mode	1630	60-150	120	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of voltage upper limit in DC voltage stabilization mode. Note: Defines the upper limit of bus reference in DC voltage stabilization mode, which is a percentage to the bus voltage base value. The bus voltage base is determined based on the voltage class of the model, which is 540 V for 400 V models and 975 V for 690 V models.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-17	Source of voltage upper limit in DC voltage stabilization mode	1638	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： K connector
	Description： Defines the source of voltage upper limit in DC voltage stabilization mode. Note: The lower value between this parameter and E9-16 is used. When this parameter is set to 0, the upper limit is inactive.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-18	Digital setting of voltage lower limit in DC voltage stabilization mode	1634	60-150	75	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines digital setting of voltage lower limit in DC voltage stabilization mode. Note: This parameter is used to set the lower limit of bus reference in DC voltage stabilization mode, which is a percentage to the bus voltage base value. The bus voltage base is determined based on the voltage class of the model, which is 540 V for 400 V models and 975 V for 690 V models.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-19	Source of voltage lower limit in DC voltage stabilization mode	1642	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the source of voltage lower limit in DC voltage stabilization mode. Note: The lower value between this parameter and E9-18 is used. When this parameter is set to 0, the lower limit is inactive.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-20	Voltage upper limit in DC voltage stabilization mode	35049	-3276.8 V to +3276.7 V	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time

	Description: Displays the upper limit of the effective bus voltage reference.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-21	Voltage lower limit in DC voltage stabilization mode	35050	-3276.8 V to +3276.7 V	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Defines the voltage lower limit in DC voltage stabilization mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-22	Base time for voltage reference change	1646	0.0-2000.0	5.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the base time for voltage reference change. Note: This parameter defines the ramp time of bus voltage reference to change from 0 V to the base value of bus voltage.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-26	Minimum operating frequency in DC voltage stabilization mode	1666	0-200	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum operating frequency in DC voltage stabilization mode. Note: If the motor speed is lower than this frequency, the bus voltage loop no longer works and the torque reference is always zero.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-27	Kp tuning coefficient of DC voltage stabilization loop	1650	1-1000	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Kp tuning coefficient of DC voltage stabilization loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-28	Ki tuning coefficient of DC voltage stabilization loop	1654	1-1000	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Ki tuning coefficient of DC voltage stabilization loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-29	Dynamic Kp tuning in DC voltage stabilization mode	2191	10-1000	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Used to set dynamic Kp tuning in DC voltage stabilization mode. Note: When the deviation between the bus voltage in DC voltage stabilization mode and the reference value exceeds E9-30, you can increase the voltage loop Kp through this coefficient to achieve better dynamic and load-resistant disturbance performance.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-30	Dynamic Kp activation threshold in DC voltage stabilization mode	2195	5.0-100.0	25.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the dynamic Kp activation threshold in DC voltage stabilization mode. Note: If the deviation between the bus voltage and the reference value in the DC voltage stabilization mode exceeds this value, you can adjust the Kp value of the voltage loop dynamically to achieve higher dynamic and load-resistant disturbance performance.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-31	Softening function of DC voltage stabilization mode	5588	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								

	Description: Used to enable the softening function of the DC voltage stabilization mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-32	Softening source in the DC voltage stabilization mode	5592	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Generating torque 2: Generating power 3: Absolute value of operating speed								
	Description: Defines the softening source in DC voltage stabilization mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-33	Softening coefficient (V/100%) in DC voltage stabilization mode	5596	0.0-1000.0	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the softening coefficient (V/100%) in DC voltage stabilization mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-34	Softening source filter in DC voltage stabilization mode	5600	0-5000	200	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the softening source filter in DC voltage stabilization mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E9-35	Additional voltage (100 V as base value) in DC voltage stabilization mode	5604	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description:								

	Defines the additional voltage (100 V as base value) in DC voltage stabilization mode.

E11 Motor model

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-00	Frequency for the model to switch from low speed to high speed	1081	0-600	20	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the frequency for the model to switch from low speed to high speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-01	Frequency for the model to switch from high speed to low speed	1085	0-600	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the frequency for the model to switch from high speed to low speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-02	Model switchover coefficient	1089	0-1000	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the model switchover coefficient.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-04	Active switchover from FVC to SVC	2540	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enable active switchover from FVC to SVC.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

E11-05	Frequency for switching from FVC to SVC actively	1097	0-100	25	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the frequency for switching from FVC to SVC actively. Note: When E11-04 is set to 1, when the absolute value of U9-00 [Motor speed] is higher than this frequency, the drive switches from FVC to SVC.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-06	Frequency for switching from SVC to FVC actively	1101	0-100	15	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the frequency for switching from SVC to FVC actively. Note: When E11-04 is set to 1, when the absolute value of U9-00 [Motor speed] is lower than this frequency, the motor switches from SVC to FVC actively.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-07	SVC speed estimation filter time	1105	0-1000	15	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the SVC speed estimation filter time.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-08	SVC speed open-loop control enable	2706	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to enable SVC speed open loop. Note: It is recommended to install an encoder to run in FVC mode for a long time at zero speed with active load. If you need to run in SVC mode under this operating condition, enable the SVC speed open loop control function (E11-08 = 1).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
E11-09	Steady speed current in SVC speed open loop	2682	0-400	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the steady speed current in SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-10	Acceleration current in SVC speed open loop	2686	0-400	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the acceleration current in SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-11	Flux filter time in SVC speed open loop	2690	0.000-1.000	0.010	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Defines flux filter time in SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-12	Frequency threshold for exiting SVC speed open loop	2694	0-100	2.5	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the frequency threshold for exiting SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-13	Hysteresis range in SVC speed open loop	2698	0-99	50	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the hysteresis range in SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-14	Waiting time for SVC speed open loop	3194	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0: Inhibited 1: Enabled Others: B connector
	Description: Used to enable waiting time for SVC speed open loop.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-15	Waiting time in SVC speed open loop	2702	0.000-10.000	0.500	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Defines the waiting time in SVC speed open loop. Note: This parameter is active when E11-14 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-16	Gain for SVC speed open loop	2846	5-3000	300	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the gain for SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-17	Slip coefficient for SVC speed open loop	2957	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the slip coefficient for SVC speed open loop.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-18	Torque coefficient for pre-control calculation	3139	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the torque coefficient for pre-control calculation.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-19	Oscillation suppression coefficient in SVC speed open loop	3696	0-1600	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description: Defines the oscillation suppression coefficient in SVC speed open loop.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-29	Motor thermal model temperature source	3764	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Estimation 1: Motor temperature sensor								
	Description: Defines the motor thermal model temperature source.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-30	Motor thermal model type	3700	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: No estimation 1: Temperature model 1								
	Description: Defines motor thermal model type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-31	Ambient temperature	3704	-50.0°C to +100.0°C	20.0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the ambient temperature.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-32	Steady state load	3708	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the steady state load.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-33	Zero speed load	3712	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description: Defines the zero speed load.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-34	Corner frequency	3716	0.0-100.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the corner frequency.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-35	Motor temperature rise under rated load	3720	0.0-200.0	80.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the motor temperature rise under rated load.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-36	Motor temperature rise time constant	3724	0-20000	1000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the motor temperature rise time constant.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-37	Initial angle source of synchronous motor	3868	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Local static auto-tuning 1: Local dynamic acquisition 3: External communication setting								
	Description: Defines the initial angle source of synchronous motor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-38	External input value of initial angle of synchronous motor	3872	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector								
	Description： Defines the external input value of initial angle of synchronous motor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-39	Magnetic pole auto-tuning upon start of synchronous motor in SVC mode	3876	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： No auto-tuning 1： Auto-tuning performed before power-on for the first time 2： Auto-tuning performed every time before start								
	Description： Used to enable magnetic pole auto-tuning upon start of synchronous motor in SVC mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-40	Low frequency current compensation coefficient for synchronous motor in SVC mode	3880	0-60	20	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the low frequency current compensation coefficient for synchronous motor in SVC mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-41	Synchronous motor MTPA control	1614	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disable 1： Enable								
	Description： Used to enable synchronous motor MTPA control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-43	Hold speed tuning torque in SVC speed open loop	1610	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0：Disable 1：Enable
	Description： Used to hold the speed tuning torque in SVC speed open loop.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-44	Load type	5524	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Light load at low speed 1：Others								
	Description： Defines the load type.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-45	Stator resistance optimization	4206	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Disable 1：Enable								
	Description： Used to enable stator resistance optimization.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-46	Stator resistance optimization threshold 1	4210	0-10	0.75	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines stator resistance optimization threshold 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
E11-56	Magnetic pole auto-tuning for connecting synchronous motor incremental encoder in FVC mode	5692	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0: No auto-tuning 1: Auto-tuning performed every time before start
	Description: Defines the auto-tuning mode for connecting synchronous motor incremental encoder in FVC mode.

F0 DI

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-00	DI physical state value	32805	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the actual physical status of DI terminals. bit0 to bit5 correspond to DI1 to DI6 respectively, and bit6 corresponds to DI7 (HDI1 used as DI). You can set whether HDI1/2 is used as a DI by F4-04 [HDI used as DI].								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-01	Processed DI state value	32806	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the actual activation state value of the DI terminal after being processed by parameters in group F0. Note: When DI is used for drive control or other related operations, associate corresponding parameters with the DI connector. Two groups of bit connectors are available for DI status. U0-02 to U0-08 can monitor the states of DI1 to DIL. U0-12 to U0-18 can monitor the state of the corresponding DI state after inversion. U0-09 and U0-10 can be used to monitor the states of HDI1 and HDI2. U0-19 and U0-20 can be used to monitor the corresponding HDI state after inversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-02	Forced DI	1117	0x0-0x01FF	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: The DI input status supports the forced function. F0-02 is used to select the forced DI, and F0-03 is used to set the status of the forced DI. One bit corresponds to the status of one DI. bit0 to bit5 correspond to DI1 to DI6. bit6 corresponds to DIL, bit7 to HDI1, and bit8 to HDI2. Note: The forced DI sets the corresponding terminal state based on F0-03 (Forced DI data). F0-01 displays the status value after being processed forcibly by the DI.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

F0-03	Forced DI data	1118	0x0-0x01FF	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the forced DI data. Note: The forced DI sets the corresponding terminal state based on F0-03 (Forced DI data). F0-01 displays the status value after being processed forcibly by the DI.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-04	DI1 switch-on delay	1119	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DI1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-05	DI1 switch-off delay	1120	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the DI1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-06	DI2 switch-on delay	1121	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DI2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-07	DI2 switch-off delay	1122	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

	Description: Defines the switch-off delay of the DI2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-08	DI3 switch-on delay	1123	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DI3. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-09	DI3 switch-off delay	1124	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the DI3 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-10	DI4 switch-on delay	1125	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DI4. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-11	DI4 switch-off delay	1126	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the DI4 terminal. The pulse falling edge of the signal source changes to low level after the								

	switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-12	DI5 switch-on delay	1127	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DI5. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-13	DI5 switch-off delay	1128	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the DI5 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-14	DI6 switch-on delay	1129	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DI6. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-15	DI6 switch-off delay	1130	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the DI6 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.								

	Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-16	DIL switch-on delay	1131	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of DIL. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-17	DIL switch-off delay	1132	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of DIL. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-18	HDI1 switch-on delay	1133	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of HDI1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-19	HDI1 switch-off delay	1134	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the HDI1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-20	HDI2 switch-on delay	1135	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of HDI2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F0-21	HDI2 switch-off delay	1136	0.00-360.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the HDI2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

F1 DO

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-00	DO signal source state value	32807	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the DO source signal state. bit0 to bit2 correspond to RO1 to RO3. bit3 and bit4 correspond to HDO1 and HDO2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-01	Processed DO state value	32808	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the status of the DO terminal after being processed with delay logic and positive/negative logic. bit0 to bit2 correspond to RO1 to RO3. bit3 and bit4 correspond to HDO1 and HDO2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-02	RO1 signal source	1138	Refer to	0	Unsigned	1	Shutdown	General	Effective

			"Value"		16 bit		change	user	in real time
	Value: 0: Low level 1: High level 2: Ready to switch on 3: Operation permission 4: Operating 5: Comparison value reached 6: Speed being negative 7: Operating at zero speed 8: Overspeed 9: Alarm 10: Fault Others: B connector								
	Description: Defines RO1 signal source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-03	RO2 signal source	1139	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level 2: Ready to switch on 3: Operation permission 4: Operating 5: Comparison value reached 6: Speed being negative 7: Operating at zero speed 8: Overspeed 9: Alarm 10: Fault Others: B connector								
	Description: Defines RO2 signal source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-04	RO3 signal source	1140	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level 2: Ready to switch on 3: Operation permission 4: Operating 5: Comparison value reached 6: Speed being negative 7: Operating at zero speed 8: Overspeed 9: Alarm 10: Fault Others: B connector								
	Description: Defines RO3 signal source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-05	Signal source for HDO1 used as DO	1141	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level 4: Operating 5: Comparison value reached 8: Overspeed 9: Alarm								

	2：Ready to switch on 3：Operation permission 6：Speed being negative 7：Operating at zero speed 10：Fault Others：B connector								
	Description： Defines HDO1 signal source.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-06	Signal source for HDO2 used as DO	1142	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Low level 1：High level 2：Ready to switch on 3：Operation permission 4：Operating 5：Comparison value reached 6：Speed being negative 7：Operating at zero speed 8：Overspeed 9：Alarm 10：Fault Others：B connector								
	Description： Defines HDO2 signal source.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-07	RO1 switch-on delay	1143	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-08	RO1 switch-off delay	1144	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-09	RO2 switch-on delay	1145	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real

									time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-10	RO2 switch-off delay	1146	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-11	RO3 switch-on delay	1147	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay of RO3. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-12	RO3 switch-off delay	1148	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay of the RO3 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

F1-13	Switch-on delay for HDO1 used as DO	1149	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay for HDO1 used as DO. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-14	Switch-off delay for HDO1 used as DO	1150	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay for HDO1 used as DO. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-15	Switch-on delay for HDO2 used as DO	1151	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-on delay for HDO2 used as DO. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-16	Switch-off delay for HDO2 used as DO	1152	0.00-360.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the switch-off delay for HDO2 used as DO. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F1-17	DO positive/negative logic	1153	0x0-0x001F	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the positive/negative logic of the DO terminal. bit0 to bit2 correspond to RO1 to RO3. bit3 and bit4 correspond to HDO1 and HDO2. Note: Setting the bit to 1 can invert the corresponding DO terminal signal source. F1-01 displays the processed state value.								

F2 AI

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-00	AI1 input value	32809	-32.768 to +32.767	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: According to F2-04, the unit is V or mA, which can be monitored by AI1 input value (U8-22).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-01	AI1 input proportion	32810	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after AI module processing. Note: When F2-20 is disabled, the value is set to 0 forcibly. It can be monitored through AI1 input proportion (U5-18).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-02	AI2 input value	32811	-32.768	0.000	Signed 16	0.001	Cannot be	General	Effective

			to +32.767		bits		changed	user	in real time
	Description: Displays the input value of AI2. Note: According to F2-05, the unit is V or mA, which can be monitored by AI2 input value (U8-23).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-03	AI2 input proportion	32812	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: It displays the percentage corresponding to AI2 input, which is the final output after AI module processing. Note: When F2-21 is disabled, the value is set to 0 forcibly. It can be monitored through AI2 input proportion (U5-19).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-04	AI1 type	1154	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI1. Value description: 0: -10 V to +10 V - Jumpers J14, 2, and 3 are shorted and AI1 voltage signal input is used. 1: 0 V to 10 V - Jumpers J14, 2, and 3 are shorted and AI1 voltage signal input is used. 2: -20 mA to +20 mA - Jumpers J14, 1, and 2 are shorted and AI1 current signal input is used. 3: 0 mA to 20 mA - Jumpers J14, 1, and 2 shorted and AI1 current signal input is used. 4: 4 mA to 20 mA - Jumpers J14, 1, and 2 shorted and AI1 current signal input is used. Note: This parameter is used to set the input signal type of AI1. Perform the jumper settings and cable connection properly at								

	the HCU end. For details, see the hardware guide.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-05	AI2 type	1155	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: -10 V to +10 V
1: 0 V to 10 V
2: -20 mA to +20 mA
3: 0 mA to 20 mA
4: 4 mA to 20 mA

Description:

Defines the input source type of AI2.

Value description:

0: -10 V to +10 V - Jumpers J15, 2, and 3 are shorted and AI2 voltage signal input is used.
1: 0 V to 10 V - Jumpers J15, 2, and 3 are shorted and AI2 voltage signal input is used.
2: -20 mA to +20 mA - Jumpers J15, 1, and 2 are shorted and AI2 current signal input is used.
3: 0 mA to 20 mA - Jumpers J15, 1, and 2 shorted and AI2 current signal input is used.
4: 4 mA to 20 mA - Jumpers J15, 1, and 2 shorted and AI2 current signal input is used.

Note:

This parameter is used to set the input signal type of AI2. Perform the jumper settings and cable connection properly at the HCU end. For details, see the hardware guide.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-06	Minimum input value of AI1 curve	1156	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time

Description:

Defines the minimum input value of AI1 curve, which is used to calibrate AI1.

Note:

F2-06 and F2-08 limit the range of AI1 input (the unit is V or mA according to F2-04). When the input value is lower than the value of F2-06, the default output is F2-07. You can also set the output to 0.0% through the ones of F2-14 (Selection when AI value lower than minimum input value).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

F2-07	Minimum input proportion of AI1 curve	1157	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1. Note: F2-06 and F2-08 limit the range of AI1 input (the unit is V or mA according to F2-04). When the input value is lower than the value of F2-06, the default output is F2-07. You can also set the output to 0.0% through the ones of F2-14 (Selection when AI value lower than minimum input value).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-08	Maximum input value of AI1 curve	1158	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1. Note: F2-06 and F2-08 limit the range of AI1 input (the unit is V or mA according to F2-04). When the input value is lower than the value of F2-06, the default output is F2-07. You can also set the output to 0.0% through the ones of F2-14 (Selection when AI value lower than minimum input value).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-09	Maximum input proportion of AI1 curve	1159	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: F2-06 and F2-08 limit the range of AI1 input (the unit is V or mA according to F2-04). When the input value is lower than the value of F2-06, the default output is F2-07. You can also set the output to 0.0% through the ones of F2-14 (Selection when AI value lower than minimum input value).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-10	Minimum input	1160	-20.000 to	-	Signed 16	0.001	Real time	General	Effective in real

	value of AI2 curve		+20.000	10.000	bits		changes	user	time
	Description: Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note: F2-10 and F2-12 limit the range of AI2 input (the unit is V or mA according to F2-05). When the input value is lower than F2-10, the default output is F2-11. You can also set the output to 0.0% through the tens of F2-14 (Selection when AI value lower than minimum input value).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-11	Minimum input proportion of AI2 curve	1161	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2. Note: F2-10 and F2-12 limit the range of AI2 input (the unit is V or mA according to F2-05). When the input value is lower than F2-10, the default output is F2-11. You can also set the output to 0.0% through the tens of F2-14 (Selection when AI value lower than minimum input value).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-12	Maximum input value of AI2 curve	1162	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: F2-10 and F2-12 limit the range of AI2 input (the unit is V or mA according to F2-05). When the input value is lower than F2-10, the default output is F2-11. You can also set the output to 0.0% through the tens of F2-14 (Selection when AI value lower than minimum input value).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-13	Maximum input proportion of AI2 curve	1163	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2.

Note:

F2-10 and F2-12 limit the range of AI2 input (the unit is V or mA according to F2-05). When the input value is lower than F2-10, the default output is F2-11. You can also set the output to 0.0% through the tens of F2-14 (Selection when AI value lower than minimum input value).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-14	Selection when AI value lower than minimum input value	1164	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Selection when AI1 value lower than minimum input value	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 value lower than minimum input value	0: Minimum input proportion 1: 0.0%

Description:

Defines the selection when the AI value is lower than the minimum input value.

Value description:

Ones-: Selection when AI1 value lower than minimum input value - The ones is used to set AI1 parameters.

0: Minimum input proportion

1: 0.0%

Tens-: Selection when AI2 value lower than minimum input value - The tens is used to set AI2 parameters.

0: Minimum input proportion

Note:

When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value.

When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-15	AI1 filter time	1165	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

Description:

	Defines the AI1 filter time, which can remove interference and generate a delay effect.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-16	AI2 filter time	1166	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI2 filter time, which can remove interference and generate a delay effect.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-17	AI1 denoising threshold	1167	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI1. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-18	AI2 denoising threshold	1168	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI2. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-19	Zero-crossing threshold of AI setting	2185	0-1	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: When the AI input proportion is lower than the threshold, the AI input proportion is 0%.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-20	AI1 selection	1169	Refer to	1	Unsigned	1	Real time	General	Effective in real

			"Value"		16 bit		changes	user	time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to enable or disable AI1. When this parameter is disabled, AI1 is set to 0 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-21	AI2 selection	1170	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to enable or disable AI2. When this parameter is disabled, AI2 is set to 0 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-22	AI1 open circuit monitoring threshold	1171	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring threshold. Note: When F2-26 is enabled, if AI1 input value (F2-00) keeps lower than the value defined by F2-22 for a period longer than F2-24 (AI1 open circuit monitoring delay), U0-35 (AI1 open circuit monitoring) will be set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-23	AI2 open circuit monitoring threshold	1172	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description: Defines AI2 open circuit monitoring threshold. Note: When F2-26 is enabled, if AI2 input value (F2-02) keeps lower than the value defined by F2-23 for a period longer than F2-25 (AI2 open circuit monitoring delay), U0-36 (AI2 open circuit monitoring) will be set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-24	AI1 open circuit monitoring delay	1173	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring delay. Note: When F2-26 is enabled, if AI1 input value (F2-00) keeps lower than the value defined by F2-22 for a period longer than F2-24 (AI1 open circuit monitoring delay), U0-35 (AI1 open circuit monitoring) will be set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-25	AI2 open circuit monitoring delay	1174	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring delay. Note: When F2-26 is enabled, if AI2 input value (F2-02) keeps lower than the value defined by F2-23 for a period longer than F2-25 (AI2 open circuit monitoring delay), U0-36 (AI2 open circuit monitoring) will be set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F2-26	AI open circuit monitoring	1175	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled

	Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled	
	Description: Defines whether to monitor AI open circuit. Note: When F2-26 is enabled, if AI2 input value (F2-02) keeps lower than the value defined by F2-23 for a period longer than F2-25 (AI2 open circuit monitoring delay), U0-36 (AI2 open circuit monitoring) will be set to 1.			

F3 AO

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-00	AO1 output	32813	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output value. Note: According to F3-06, the unit is V or mA, which can be monitored by the AO1 output value (U8-26).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-01	AO1 output proportion	32814	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output percentage, corresponding to F3-04. Note: It can be monitored through AO1 output proportion (U5-22).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-02	AO2 output	32815	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output value. Note:								

	According to F3-07, the unit is V or mA, which can be monitored by the AO2 output value (U8-27).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-03	AO2 output proportion	32816	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output percentage, corresponding to F3-05. Note: It can be monitored through AO2 output proportion (U5-23).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-04	AO1 signal source	1176	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 1: Actual motor speed 2: Synchronous frequency 3: Motor current 4: Motor torque 5: DC bus voltage 6: Output power 7: Ramp input of speed reference 8: Ramp output of speed reference 9: Speed reference after superposition 10: Torque ramp reference Others: K connector								
	Description: Defines the signal source of AO1 output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-05	AO2 signal source	1177	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 1: Actual motor speed 2: Synchronous frequency 3: Motor current 4: Motor torque 5: DC bus voltage 6: Output power 7: Ramp input of speed reference 8: Ramp output of speed reference 9: Speed reference after superposition 10: Torque ramp reference Others: K connector								
	Description: Defines the signal source of AO2 output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

F3-06	AO1 type	1178	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO1 output signal type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-07	AO2 type	1179	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO2 output signal type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-08	Minimum output proportion of AO1 curve	1180	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: F3-08 and F3-10 limit the range of the AO1 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-06).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-09	Minimum output value of AO1 curve	1181	0.000-20.000	0.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: F3-08 and F3-10 limit the range of the AO1 output percentage. Within the range, the output value is converted according to								

	the line (the unit is V or mA, depending on the setting of F3-06).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-10	Maximum output proportion of AO1 curve	1182	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: F3-08 and F3-10 limit the range of the AO1 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-06).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-11	Maximum output value of AO1 curve	1183	0.000-20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: F3-08 and F3-10 limit the range of the AO1 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-06).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-12	Minimum output proportion of AO2 curve	1184	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: F3-12 and F3-14 limit the range of the AO2 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-07).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-13	Minimum output value of AO2 curve	1185	0.000-20.000	0.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description:								

	Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: F3-12 and F3-14 limit the range of the AO2 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-07).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-14	Maximum output proportion of AO2 curve	1186	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: F3-12 and F3-14 limit the range of the AO2 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-07).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F3-15	Maximum output value of AO2 curve	1187	0.000-20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: F3-12 and F3-14 limit the range of the AO2 output percentage. Within the range, the output value is converted according to the line (the unit is V or mA, depending on the setting of F3-07).								

F4 HDI

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-00	HDI1 input value	32817	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of HDI1. Note:								

	The unit is kHz, which can be monitored through the input value of HDI1 (U8-24).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-01	HDI1 input proportion	32818	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the input proportion of HDI1 filtered through linear processing. Note: It can be monitored through HDI1 input proportion (U5-20).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-02	HDI2 input value	32819	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of HDI2. Note: The unit is kHz, which can be monitored through the input value of HDI2 (U8-25).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-03	HDI2 input proportion	32820	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the input proportion of HDI2 filtered through linear processing. Note: It can be monitored through U5-21 (HDI2 input proportion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-04	HDI used as DI	1188	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Whether to use HDI1 as DI	0: No 1: Yes
Tens-	Whether to use HDI2 as DI	0: No 1: Yes

Description:

Defines whether to use HDI as DI.

Note:

After setting HDI to be used as DI, configure it in group F0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-05	Minimum input frequency of HDI1 curve	1191	10.00-100.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

Description:

Defines the minimum input frequency of the HDI1 curve, which is used to calibrate the output of HDI1.

Note:

F4-06 and F4-08 limit the range of HDO1 output percentage. Within the value range, the output proportion is linearly converted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-06	Minimum input proportion of HDI1 curve	1192	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the minimum input proportion of the HDI1 curve, which is used to calibrate the output of HDI1.

Note:

F4-06 and F4-08 limit the range of HDO1 output percentage. Within the value range, the output proportion is linearly converted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-07	Maximum input frequency of HDI1	1193	10.00-100.00	100.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real

	curve								time
	Description: Defines the maximum input frequency of the HDI1 curve, which is used to calibrate the output of HDI1. Note: F4-06 and F4-08 limit the range of HDO1 output percentage. Within the value range, the output proportion is linearly converted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-08	Maximum input proportion of HDI1 curve	1194	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of the HDI1 curve, which is used to calibrate the output of HDI1. Note: F4-06 and F4-08 limit the range of HDO1 output percentage. Within the value range, the output proportion is linearly converted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-09	Minimum input frequency of HDI2 curve	1195	10.00-100.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum input frequency of the HDI2 curve, which is used to calibrate the output of HDI2. Note: F4-10 and F4-12 limit the range of HDO2 output percentage. Within the value range, the output proportion is linearly converted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-10	Minimum input proportion of HDI2 curve	1196	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of the HDI1 curve, which is used to calibrate the output of HDI1.								

	Note: F4-10 and F4-12 limit the range of HDO2 output percentage. Within the value range, the output proportion is linearly converted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-11	Maximum input frequency of HDI2 curve	1197	10.00-100.00	100.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

F4-11

Description:

Defines the maximum input frequency of the HDI1 curve, which is used to calibrate the output of HDI1.

Note:

F4-10 and F4-12 limit the range of HDO2 output percentage. Within the value range, the output proportion is linearly converted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-12	Maximum input proportion of HDI2 curve	1198	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

F4-12

Description:

Defines the maximum input proportion of the HDI1 curve, which is used to calibrate the output of HDI1.

Note:

F4-10 and F4-12 limit the range of HDO2 output percentage. Within the value range, the output proportion is linearly converted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-13	Selection when HDI value lower than minimum input value	2046	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

F4-13

Value:

Bit	Name	Value
Ones-	Selection when HDI1 value lower than minimum input value	0: Minimum input proportion 1: 0.0%
Tens-	Selection when HDI2 value lower than minimum input value	0: Minimum input proportion 1: 0.0%

	Description: Defines the selection when the HDI value is lower than the minimum input value. Note: When it is set to 0, the output is the minimum input proportion when the HDI input is lower than the minimum input value. When it is set to 1, the output is 0.0% when the HDI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-14	HDI1 filter time	1189	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the filter time of the HDI1 input proportion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-15	HDI2 filter time	1190	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the filter time of the HDI2 input proportion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F4-16	HDI zero-crossing threshold	2186	0-1	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: When the HDI input proportion is lower than the threshold, the HDI input proportion is 0%.								

F5 HDO

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-00	HDO1 output	32821	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time

	Description: Displays the HDO1 output value. Note: The unit is kHz. It can be monitored through U8-28 (HDO1 output value).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-01	HDO1 output proportion	32822	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output proportion of filtered HDO1 that being processed linearly. Note: It can be monitored through U5-24 (HDO1 output proportion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-02	HDO2 output	32823	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the HDO2 output value. Note: The unit is kHz. It can be monitored through U8-29 (HDO2 output value).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-03	HDO2 output proportion	32824	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output proportion of filtered HDO2 that being processed linearly. Note: It can be monitored through U5-25 (HDO2 output proportion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

F5-04	HDO used as common DO	1199	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Whether to use HDO1 as DO	0: No 1: Yes
Tens-	Whether to use HDO2 as DO	0: No 1: Yes

Description:

Defines whether to use HDO as DO.

Note:

After setting HDO to be used as DO, configure it in group F1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-05	HDO1 signal source	1200	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: 0
1: Actual motor speed
2: Synchronous frequency
3: Motor current
4: Motor torque
5: DC bus voltage
6: Output power
7: Ramp input of speed reference
8: Ramp output of speed reference
9: Speed reference after superposition
10: Torque ramp reference
Others: K connector

Description:

Defines HDO1 signal source.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-06	HDO2 signal source	1201	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: 0
1: Actual motor speed
2: Synchronous frequency
4: Motor torque
5: DC bus voltage
6: Output power
8: Ramp output of speed reference
9: Speed reference after

	3：Motor current 7：Ramp input of speed reference superposition 10：Torque ramp reference Others：K connector								
	Description： Defines HDO2 signal source.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-07	Minimum output proportion of HDO1 curve	1202	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the minimum output proportion of the HDO1 curve, which is used to calibrate the output of HDO1. Note: F5-08 and F5-10 limit the range of HDO1 output frequency. Within the value range, the output frequency is converted linearly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-08	Minimum output frequency of HDO1 curve	1203	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the minimum output frequency of the HDO1 curve, which is used to calibrate the output of HDO1. Note: F5-08 and F5-10 limit the range of HDO1 output frequency. Within the value range, the output frequency is converted linearly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-09	Maximum output proportion of HDO1 curve	1204	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the maximum output proportion of the HDO1 curve, which is used to calibrate the output of HDO1.								

	Note: F5-08 and F5-10 limit the range of HDO1 output frequency. Within the value range, the output frequency is converted linearly.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-10	Maximum output frequency of HDO1 curve	1205	0.00-100.00	100.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum output frequency of the HDO1 curve, which is used to calibrate the output of HDO1. Note: F5-08 and F5-10 limit the range of HDO1 output frequency. Within the value range, the output frequency is converted linearly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-11	Minimum output proportion of HDO2 curve	1206	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of the HDO2 curve, which is used to calibrate the output of HDO2. Note: F5-12 and F5-14 limit the range of HDO2 output frequency. Within the value range, the output frequency is converted linearly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-12	Minimum output frequency of HDO2 curve	1207	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum output frequency of the HDO2 curve, which is used to calibrate the output of HDO2. Note:								

	F5-12 and F5-14 limit the range of HDO2 output frequency. Within the value range, the output frequency is converted linearly.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-13	Maximum output proportion of HDO2 curve	1208	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of HDO2 curves, which is used to calibrate the output of HDO2. Note: F5-12 and F5-14 limit the range of HDO2 output frequency. Within the value range, the output frequency is converted linearly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F5-14	Maximum output frequency of HDO2 curve	1209	0.00-100.00	100.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum output frequency of the HDO2 curve, which is used to calibrate the output of HDO2. Note: F5-12 and F5-14 limit the range of HDO2 output frequency. Within the value range, the output frequency is converted linearly.								

F6 AI/AO Factory calibration parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
F6-16	AO1 current output gain	4201	95-105	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines AO1 current output gain.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

F6-17	AO2 current output gain	4202	95-105	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines AO2 current output gain.								

H0 Troubleshooting

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-00	Source of external fault 1	1210	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: You can set the source of external fault 1 to enable custom fault triggering. Note: When this parameter is set to 1, external fault 1 (F15-1) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-01	Source of external fault 2	1211	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: You can set the source of external fault 2 to enable custom fault triggering. Note: When this parameter is set to 1, external fault 2 (F15-2) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-02	Source of external alarm 1	1212	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: You can set the source of external alarm 1 to enable custom alarm triggering. The drive can continue operation after the alarm is triggered. Note: When this parameter is set to 1, external alarm 1 (A63-1) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-03	Source of external alarm 2	1213	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: You can set the source of external alarm 2 to enable custom alarm triggering. The drive can continue operation after the alarm is triggered. Note: When this parameter is set to 1, external alarm 2 (A63-2) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-06	Custom black box trigger command source	1216	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： B connector
	Description： Defines the source of the black box trigger command. Value description: 0: Invalid Others: B connector - Select the black box trigger command source. The black box is triggered upon the rising edge of B. If switching from "0: Invalid" to high level of B connector, the black box cannot be triggered.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-07	Automatic fault reset enable	1217	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disabled 1： Enabled								
	Description： Defines whether to enable automatic fault reset. Note: In certain applications, a limited number of automatic fault resets can be set to ensure continuous application when a fault occurs. You can set the fault reset interval (H0-09), number of fault reset events (H0-10), and the time for resetting the number of fault reset events (H0-08). You can set three non-resettable error codes through H0-11 to H0-13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-08	Time for resetting the number of fault reset events	1218	0.0-3600.0	180.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the time for resetting the number of fault reset events. Note: After the set time elapses, the remaining number of fault resets is restored to the value of H0-10. If the fault reset interval time exceeds the reset time of the number of fault resets, this function is invalid.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
H0-09	Automatic reset interval	1219	0.0-600.0	30.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the fault reset interval. Note: In case of a system fault, a reset command is generated every time the fault interval time elapses.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-10	Number of fault resets	1220	0-5	5	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of automatic fault resets. Note: The number of remaining automatic resets reduced by 1 every time a reset command is generated. When the number of remaining automatic resets is 0, the automatic fault reset function is disabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-11	Non-resettable fault code 1	1221	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines non-resettable fault code 1. Note: When non-resettable fault code exists in the system fault list, the system does not generate automatic reset command. The fault can be reset manually only.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-12	Non-resettable fault code 2	1222	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines non-resettable fault code 2. Note: When non-resettable fault code exists in the system fault list, the system does not generate automatic reset command. The fault can be reset manually only.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-13	Non-resettable fault code 3	1223	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines non-resettable fault code 3. Note: When non-resettable fault code exists in the system fault list, the system does not generate automatic reset command. The fault can be reset manually only.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-19	Restart after automatic reset	1230	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable restart after automatic fault reset. Value description: 0: Invalid 1: Valid Note: When this parameter is set to 1, restart is available after automatic fault reset. You can set the waiting time for restart after fault reset through H0-20. The source for setting fault codes that allow restart can be set through H0-21 to H0-26.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H0-20	Restart waiting time after automatic reset	1229	0.0-6000.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the waiting time for restart after automatic reset. This function takes effect when H0-19 is enabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-21	Source for fault codes that allow restart	1231	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Specified fault codes allow restart. 1: Specified fault codes do not allow restart.								
	Description: Defines the source for fault codes that allow restart. Value description: 0: Specified fault codes allow restart - Only fault codes defined by H0-22 to H0-26 allow restart. 1: Specified fault codes do not allow restart - All the fault codes allow restart, except those defined by H0-22 to H0-26.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-22	Specified fault code 1	1232	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the specified fault code 1. See details in H0-21.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-23	Specified fault code 2	1233	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the specified fault code 2. See details in H0-21.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H0-24	Specified fault code 3	1234	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the specified fault code 3. See details in H0-21.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-25	Specified fault code 4	1235	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the specified fault code 4. See details in H0-21.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-26	Specified fault code 5	1236	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the specified fault code 5. See details in H0-21.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-27	Start mode after automatic reset	6366	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Normal 1: Flying start								
	Description: Defines the start mode after automatic reset. Value description: 0: Normal - The start mode is consistent with the current setting. 1: Flying start - Flying start applies forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H0-28	Combination mode of fault code and sub-code	6455	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: High-byte fault code with low-byte sub-code 1: Low-byte master code with high-byte sub-code 2: Master code x 100+Sub-code								
	Description: Defines the combination mode of fault code and sub-code. Note: You can monitor the current fault code (code and sub-code) (U17-67), the current minor fault code (code and sub-code) (U17-68), and the current alarm code (code and sub-code) (U17-69).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-32	STO terminal wiring mode	1214	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Powered by the built-in 24 V of the power module 1: Powered by external 24 V								
	Description: Defines the STO terminal wiring mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-33	STO signal filter time	1215	0-15	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time of STO signal from an external device. Note: 1. The STO function determines whether to shut off the torque or force output of the motor based on input signals STO1/STO2 from an external device. If the motor is still operating when the safety function is activated, it coasts to stop. The STO function can stop the inverter in emergencies or prevent inadvertent startup during, for example, short-term maintenance without disconnecting the inverter power supply. 2. For details on the connection of STO1/STO2 input signals to the HCU board, see HCU Control Unit Hardware Guide. 3. You can monitor the STO input signal through U0-54 (STO1 feedback state) and U0-55 (STO2 feedback state) and view								

	the online modules with STO function and their activation status through U4-51 and U7-96 to U7-98.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-34	STO signal inconsistency detection delay	6402	15-2000	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Set the detection delay for inconsistent STO status.

Note:
1. Signals of STO1 and STO2 must be at high level simultaneously to enable normal operation of the drive. After the time as defined by H0-34, if either or both of them are at low level simultaneously, the PWM signals will be blocked.
2. If either of signals is at low level, an alarm is reported, with U3-68 (STO fault) set to 1 automatically. In this case, you need to manually reset the fault. If both signals are at low level, an alarm is reported, with U3-95 (STO alarm) set to 1 automatically. Reset automatically or manually as defined by H0-35.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-35	STO alarm state reset mode	6380	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:
0: Manual reset
1: Auto reset

Description:
Set the reset mode for STO alarm state.

Value description:
0: Manual reset
The alarm can be reset only through fault reset command.
1: Automatic reset
When STO is not triggered, automatic reset is needed.

Note:
1. Signals of STO1 and STO2 must be at high level simultaneously to enable normal operation of the drive. After the time as defined by H0-34, if either or both of them are at low level simultaneously, the PWM signals will be blocked.
2. If either of signals is at low level, an alarm is reported, with U3-68 (STO fault) set to 1 automatically. In this case, you need to manually reset the fault. If both signals are at low level, an alarm is reported, with U3-95 (STO alarm) set to 1 automatically. Reset automatically or manually as defined by H0-35.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-36	STO alarm state detection enable	6403	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not detected upon bus undervoltage 1: Detected upon bus undervoltage								
	Description: Defines whether to enable STO alarm state detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-40	Exception detection enable selection 1	3229	Refer to "Value"	11110	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	OFF2/OFF3 activation alarm	0: Disabled 1: Enabled
Tens-	Alarm indicating HCU RTC battery voltage too low	0: Disabled 1: Enabled
Hundreds-	EX-FLASH1 read/write error alarm	0: Disabled 1: Enabled
Thousands-	SD card offline/exception alarm	0: Disabled 1: Enabled
Ten thousands-	Fault to be recorded by SD black box	0: Faults that occur during operation 1: Faults that occur at any time

Description:

Defines the exception detection enable source.

Value description:

Ones-: OFF2/OFF3 activation alarm - A63-4 OFF2 or OFF3 stop

0: Disabled

1: Enable

Tens -: Alarm indicating HCU RTC battery voltage too low - A51-1 HCU-RTC unit power supply insufficient

0: Disabled

1: Enable

Hundreds-: EX-FLASH 1 read/write error alarm

0: Disabled
1: Enabled
Thousands-: SD card offline/exception alarm - A50-1/2 SD card error
0: Disabled
1: Enable
Ten thousands - Fault to be recorded by SD black box
0: Faults that occur during operation
1: Faults that occur at any time

Note:
This parameter is used to set whether to enable the corresponding exception detection.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H0-41	Exception detection enable 2	3230	Refer to "Value"	11111	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Alarm indicating HCU_24 V input voltage too low	0: Disabled 1: Enabled
Tens-	HOFR optical fiber cross-check	0: Disabled 1: Enabled
Hundreds-	MD880 inverter fan inspection	0: Disabled 1: Enabled
Thousands-	Alarm indicating maximum back EMF of synchronous motor too high	0: Disabled 1: Enabled
Ten thousands-	Detection on conflict between the maximum speed and carrier frequency speed limit	0: Disabled 1: Enabled

Description:
Defines whether to enable exception detection.

Value description:
Ones-: Alarm indicating HCU_24 V input voltage too low - A89-1 HCU-24 V power supply error
0: Disabled
1: Enable
Tens-: HOFR optical fiber cross-check
0: Disabled
1: Enabled
Hundreds-: MD880 inverter fan inspection
0: Disabled

	1: Enabled Thousands-: Alarm indicating the maximum back EMF of the synchronous motor too high 0: Disabled 1: Enable Ten thousands: Detection on conflict between the maximum speed and carrier frequency speed limit 0: Disabled 1: Enable Note: This parameter is used to set whether to enable the corresponding exception detection.

H1 Fault level change

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-00	Exception code 1 for changing exception level	1243	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Used to set the exception code 1 that needs to be changed, that is, the displayed fault code: The fault code that is displayed when an exception occurs, such as F15-1 external fault 1. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-02	Exception level of fault code 1	1244	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 1. Value description:								

	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-04	Exception code 2 for changing exception level	1245	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code 2 of the exception level that needs to be modified. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-06	Exception level of fault code 2	1246	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 2. Value description: 0: Coast to stop								

	1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-08	Exception code 3 for changing exception level	1247	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 3 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-10	Exception level of fault code 3	1248	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 3. Value description: 0: Switch-off 1: Reserved								

	2: Stop 3: Reserved 4: Reserved 5: Reserved 6: Display alarm 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-12	Exception code 4 for changing exception level	1249	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 4 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-14	Exception level of fault code 4	1250	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 4. Value description: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode								

	3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-16	Exception code 5 for changing exception level	1251	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 5 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-18	Exception level of fault code 5	1252	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 5. Value description: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current								

	4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-20	Exception code 6 for changing exception level	1253	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 6 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-22	Exception level of fault code 6	1254	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 6. Value description: 0: Switch-off 1: Reserved 2: Stop 3: Reserved 4: Reserved								

	5: Reserved 6: Display alarm 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-24	Exception code 7 for changing exception level	1255	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 7 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-26	Exception level of fault code 7	1256	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 7. Value description: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque								

	6: Display alarm only 7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-28	Exception code 8 for changing exception level	1257	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 8 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-30	Exception level of fault code 8	1258	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 8. Value description: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only								

	7: No operation Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-32	Exception code 9 for changing exception level	1259	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 9 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-34	Exception level of fault code 9	1260	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 9. Value description: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								

	Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-36	Exception code 10 for changing exception level	1261	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the exception code 10 for changing exception level. Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-38	Exception level of fault code 10	1262	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								
	Description: Defines the exception level of fault code 10. Value description: 0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running with limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No operation								

	Note: 1. Faults are classified into faults, minor faults, and alarms, which is further divided into ten levels to fit different fault conditions. 2. Not every fault can be set at any fault level. When a different fault level is selected, the system automatically judges the maximum allowable value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-40	Maximum current for operating under current limits	2734	10-100	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum current for speed-limited operation.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-42	Speed limiting operating mode	2726	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Speed-limited operation 1: Operating at designated speed								
	Description: Defines the operation mode when speed-limited operation is used for protection. Value description: 0: Speed-limited operation - The speed is limited to the speed range set by H1-44 to H1-45. 1: Operating at designated speed - The drive operates at the safety operating speed defined by H1-43.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-43	Setpoint for operating at a specified speed	2727	-100 to +1 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the safe operating speed during speed-limited operation. The speed limit is set to 1 only when H1-42 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-44	Positive limit for speed-limited operation	2728	0-100	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the positive speed limit during speed-limited operation. This parameter is active only when H1-42 is set to 0.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
H1-45	Negative limit during speed-limited operation	2729	-100 to 0	-10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the negative speed limit during speed-limited operation. This parameter is active only when H1-42 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-48	Torque upper limit for torque-limited operation	2730	0-100	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the positive torque limit when torque-limited operation is used for protection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-49	Torque lower limit for torque-limited operation	2731	-100 to 0	-50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the negative torque limit when torque-limited operation is used for protection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-50	Motoring power limit for operating under torque limits	2732	0-100	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the motoring power limit for torque-limited operation.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H1-51	Generating power limit for torque-limited operation	2733	0-100	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the generating power limit for torque-limited operation.								

H2 Latest fault code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H2-00	Latest fault code 1	1293	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-01	Sub-code of latest fault code 1	1294	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-02	Latest fault code 2	1295	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-03	Sub-code of latest fault code 2	1296	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-04	Latest fault code 3	1297	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-05	Sub-code of latest fault code 3	1298	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-06	Latest fault code 4	1299	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the fault code of the latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-07	Sub-code of latest fault code 4	1300	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-08	Latest fault code 5	1301	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-09	Sub-code of latest fault code 5	1302	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-10	Latest fault code 6	1303	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-11	Sub-code of latest fault code 6	1304	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-12	Speed of the latest fault	1263	-300.00 Hz to +300.00	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time

			Hz						
	Description: Displays the speed when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-13	Current of the latest fault	1264	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Indicates the current when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-14	Bus voltage of the latest fault	1265	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the bus voltage when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-15	Output torque of the latest fault	1266	-800 to +800	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output torque when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-16	Control word 1 of the latest fault	1267	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the control word 1 when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-17	Control word 2 of the latest fault	1268	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the control word 2 when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-18	Status word of the latest fault	1269	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the status word 1 when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-19	State machine upon the latest fault	1270	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the state machine when the latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-20	Time of occurrence of the latest fault	1271	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Display the moment when the latest fault occurs. Note: The display format is (h: min).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H2-21	Date of occurrence of the latest fault	1272	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the date when the latest fault occurs. Note: The display format is (month/day).								

H3 Second latest fault code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-00	Second latest fault code 1	1305	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the second latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-01	Sub-code of second latest	1306	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	fault code 1								
	Description: Displays the fault sub-code of the second latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-02	Second latest fault code 2	1307	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the second latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-03	Sub-code of second latest fault code 2	1308	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the second latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-04	Second latest fault code 3	1309	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the second latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-05	Sub-code of second latest fault code 3	1310	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the second latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-06	Second latest fault code 4	1311	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the second latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-07	Sub-code of second latest fault code 4	1312	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the fault sub-code of the second latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-08	Second latest fault code 5	1313	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the second latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-09	Sub-code of second latest fault code 5	1314	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the second latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-10	Second latest fault code 6	1315	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the second latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-11	Sub-code of second latest fault code 6	1316	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the second latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-12	Speed of the second latest fault	1273	-300.00 Hz to +300.00 Hz	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the speed when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-13	Current of the second latest fault	1274	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time

	Description: Displays the current when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-14	Bus voltage of the second latest fault	1275	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the bus voltage when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-15	Output torque of the second latest fault	1276	-800 to +800	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output torque when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-16	Control word 1 of the second latest fault	1277	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the control word 1 when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-17	Control word 2 of the second latest fault	1278	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the control word 2 when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-18	Status word of the second latest fault	1279	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the status word 1 when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-19	State machine of the second	1280	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	latest fault								
	Description: Displays the state machine when the second latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-20	Time of the second latest fault	1281	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the moment when the second latest fault occurs. Note: The display format is (h: min).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H3-21	Date of the second latest fault	1282	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data when the second latest fault occurs. Note: The display format is (month/day).								

H4 Third latest fault code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-00	Third latest fault code 1	1317	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the third latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-01	Sub-code of third latest fault code 1	1318	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the third latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H4-02	Third latest fault code 2	1319	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the third latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-03	Sub-code of third latest fault code 2	1320	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the third latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-04	Third latest fault code 3	1321	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the third latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-05	Sub-code of third latest fault code 3	1322	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the third latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-06	Third latest fault code 4	1323	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the third latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-07	Sub-code of third latest fault code 4	1324	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the third latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-08	Third latest fault code 5	1325	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the fault code of the third latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-09	Sub-code of third latest fault code 5	1326	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the third latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-10	Third latest fault code 6	1327	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the third latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-11	Sub-code of third latest fault code 6	1328	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault sub-code of the third latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-12	Speed of the third latest fault	1283	-300.00 Hz to +300.00 Hz	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the speed when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-13	Current of the third latest fault	1284	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the current upon the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-14	Bus voltage of the third latest	1285	0.0-	0.0	Unsigned	0.1	Cannot be	General	Effective in

	fault		6553.5		16 bit		changed	user	real time
	Description: Displays the bus voltage when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-15	Output torque of the third latest fault	1286	-800 to +8 00	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output torque when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-16	Control word 1 of the third latest fault	1287	0x0- 0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays control word 1 when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-17	Control word 2 of the third latest fault	1288	0x0- 0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays control word 2 when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-18	Status word of the third latest fault	1289	0x0- 0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the status word 1 when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-19	State machine of the third latest fault	1290	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the state machine when the third latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-20	Time of the	1291	0-65535	0	Unsigned	1	Cannot be	General	Effective in

	third latest fault				16 bit		changed	user	real time
	Description: Displays the moment when the third latest fault occurs. Note: The display format is (h: min).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H4-21	Date of the third latest fault	1292	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the date when the third latest fault occurs. Note: The display format is (month/day).								

H5 Fourth latest fault code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-00	Fourth latest fault code 1	1329	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fourth latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-01	Sub-code of fourth latest fault code 1	1330	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fourth latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-02	Fourth latest fault code 2	1331	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fourth latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H5-03	Sub-code of fourth latest fault code 2	1332	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fourth latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-04	Fourth latest fault code 3	1333	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fourth latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-05	Sub-code of fourth latest fault code 3	1334	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fourth latest fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-06	Fourth latest fault code 4	1335	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fourth latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-07	Sub-code of fourth latest fault code 4	1336	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fourth latest fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-08	Fourth latest fault code 5	1337	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fourth latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-09	Sub-code of fourth latest	1338	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	fault code 5								
	Description: Displays the sub-code of the fourth latest fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-10	Fourth latest fault code 6	1339	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fourth latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-11	Sub-code of fourth latest fault code 6	1340	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fourth latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-12	Speed of the fourth latest fault	5051	-300.00 Hz to +300.00 Hz	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the speed when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-13	Current of the fourth latest fault	5052	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the current when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-14	Bus voltage of the fourth latest fault	5053	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the bus voltage when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H5-15	Output torque of the fourth latest fault	5054	-800 to +8 00	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output torque when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-16	Control word 1 of the fourth latest fault	5055	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the control word 1 when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-17	Control word 2 of the fourth latest fault	5056	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the control word 2 when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-18	Status word of the fourth latest fault	5057	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the status word 1 when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-19	State machine of the fourth latest fault	5058	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the state machine when the fourth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-20	Time of the fourth latest fault	5059	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the moment when the fourth latest fault occurs. Note:								

	The display format is (h: min).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H5-21	Date of the fourth latest fault	5060	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the date of the fourth latest fault. Note: The display format is (month/day).								

H6 Fifth latest fault code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-00	Fifth latest fault code 1	1341	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fifth latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-01	Sub-code of fifth latest fault code 1	1342	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fifth latest fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-02	Fifth latest fault code 2	1343	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fifth latest fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-03	Sub-code of fifth latest fault code 2	1344	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fifth latest fault 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-04	Fifth latest fault code 3	1345	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fifth latest fault 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-05	Sub-code of fifth latest fault code 3	1346	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fifth latest fault 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-06	Fifth latest fault code 4	1347	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fifth latest fault 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-07	Sub-code of fifth latest fault code 4	1348	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fifth latest fault 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-08	Fifth latest fault code 5	1349	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fifth latest fault 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-09	Sub-code of fifth latest fault code 5	1350	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fifth latest fault 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H6-10	Fifth latest fault code 6	1351	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of the fifth latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-11	Sub-code of fifth latest fault code 6	1352	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of the fifth latest fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-12	Speed of the fifth latest fault	5061	-300.00 Hz to +300.00 Hz	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the speed when the fifth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-13	Current of the fifth latest fault	5062	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the current when the fifth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-14	Bus voltage of the fifth latest fault	5063	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the bus voltage when the fifth latest fault occurs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-15	Output torque of the fifth latest fault	5064	-800 to +800	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the output torque when the fifth latest fault occurs.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
H6-16	Control word 1 of the fifth latest fault	5065	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays control word 1 when the fifth latest fault occurs.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-17	Control word 2 of the fifth latest fault	5066	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays control word 2 when the fifth latest fault occurs.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-18	Status word of the fifth latest fault	5067	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the status word 1 when the fifth latest fault occurs.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-19	State machine of the fifth latest fault	5068	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the state machine when the fifth latest fault occurs.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-20	Time of the fifth latest fault	5069	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the moment when the fifth latest fault occurs. Note: The display format is (h: min).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H6-21	Date of the fifth latest fault	5070	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the date of the fifth latest fault.								

	Note: The display format is (month/day).

H7 Latest minor fault code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-00	Minor fault code 1	1353	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of minor fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-01	Sub-code of minor fault code 1	1354	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of minor fault 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-02	Minor fault code 2	1355	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of minor fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-03	Sub-code of minor fault code 2	1356	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of minor fault 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-04	Minor fault code 3	1357	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of minor fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H7-05	Sub-code of minor fault code 3	1358	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of minor fault 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-06	Minor fault code 4	1359	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of minor fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-07	Sub-code of minor fault code 4	1360	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of minor fault 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-08	Minor fault code 5	1361	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of minor fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-09	Sub-code of minor fault code 5	1362	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of minor fault 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-10	Minor fault code 6	1363	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the fault code of minor fault 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H7-11	Sub-code of minor fault	1364	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	code 6								
	Description: Displays the sub-code of minor fault 6.								

H8 Latest alarm code log

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-00	Alarm code 1	1365	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the code of alarm 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-01	Sub-code of alarm code 1	1366	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of alarm 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-02	Alarm code 2	1367	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the code of alarm 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-03	Sub-code of alarm code 2	1368	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of alarm 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-04	Alarm code 3	1369	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the code of alarm 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H8-05	Sub-code of alarm code 3	1370	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of alarm 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-06	Alarm code 4	1371	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the code of alarm 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-07	Sub-code of alarm code 4	1372	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of alarm 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-08	Alarm code 5	1373	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the code of alarm 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-09	Sub-code of alarm code 5	1374	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the sub-code of alarm 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-10	Alarm code 6	1375	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the code of alarm 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H8-11	Sub-code of alarm code	1376	0-65534	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

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	Description： Displays the sub-code of alarm 6.								

H10 Custom fault word

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-00	Custom fault word 1	34914	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays custom fault word 1. Note: 1. Group H10 contains two sets of custom fault words: fault word 1 (H10-02 to H10-33) and fault word 2 (H10-34 to H10-65). You can set fault codes and sub-codes in group H10. When an invert fault has the same fault code and sub-code as those set by the user, the fault word bits of H10-00 to H10-01 are set to 1. When the fault sub-code is set to 0 (all fault sub-codes), for a fault with the same fault code and sub-code as the custom ones, the corresponding fault word bit is set to 1 automatically. 2. The fault can still be indicated before reset after the fault trigger signal is deactivated.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-01	Custom fault word 2	34915	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays custom fault word 2. Note: 1. Group H10 contains two sets of custom fault words: fault word 1 (H10-02 to H10-33) and fault word 2 (H10-34 to H10-65). You can set fault codes and sub-codes in group H10. When an invert fault has the same fault code and sub-code as those set by the user, the fault word bits of H10-00 to H10-01 are set to 1. When the fault sub-code is set to 0 (all fault sub-codes), for a fault with the same fault code and sub-code as the custom ones, the corresponding fault word bit is set to 1 automatically. 2. The fault can still be indicated before reset after the fault trigger signal is deactivated.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-02	Fault word 1-bit0 fault code	3239	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description：								

	Defines the fault code for setting bit0 of fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-03	Fault word 1-bit0 fault sub-code	3240	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit0 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-04	Fault word 1-bit1 fault code	3241	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit1 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-05	Fault word 1-bit1 fault sub-code	3242	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit1 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-06	Fault word 1-bit2 fault code	3243	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the fault code for setting bit2 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-07	Fault word 1-bit2 fault sub-code	3244	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit2 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-08	Fault word 1-bit3 fault code	3245	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit3 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-09	Fault word 1-bit3 fault sub-code	3246	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit3 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-10	Fault word 1-bit4 fault	3247	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	code								
	Description： Defines the fault code for setting bit4 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-11	Fault word 1-bit4 fault sub-code	3248	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5 6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11 12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16								
	Description： Defines the fault sub-code for setting bit4 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-12	Fault word 1-bit5 fault code	3249	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit5 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-13	Fault word 1-bit5 fault sub-code	3250	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5 6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11 12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16								
	Description： Defines the fault sub-code for setting bit5 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-	Fault word 1-	3251	0-65535	0	Unsigned	1	Real time	General	Effective in

14	bit6 fault code				16 bit		changes	user	real time
	Description: Defines the fault code for setting bit6 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-15	Fault word 1-bit6 fault sub-code	3252	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit6 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-16	Fault word 1-bit7 fault code	3253	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit7 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-17	Fault word 1-bit7 fault sub-code	3254	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit7 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

H10-18	Fault word 1-bit8 fault code	3255	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit8 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-19	Fault word 1-bit8 fault sub-code	3256	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit8 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-20	Fault word 1-bit9 fault code	3257	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit9 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-21	Fault word 1-bit9 fault sub-code	3258	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit9 of the fault word 1 to 1.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
H10-22	Fault word 1-bit10 fault code	3259	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit10 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-23	Fault word 1-bit10 fault sub-code	3260	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Used to set the fault sub-code for setting bit10 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-24	Fault word 1-bit11 fault code	3261	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit11 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-25	Fault word 1-bit11 fault sub-code	3262	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Used to set the fault sub-code for setting bit11 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-26	Fault word 1-bit12 fault code	3263	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit12 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-27	Fault word 1-bit12 fault sub-code	3264	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Used to set the fault sub-code for setting bit12 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-28	Fault word 1-bit13 fault code	3265	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit13 of the fault word 1 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-29	Fault word 1-bit13 fault sub-code	3266	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description:								

	Used to set the fault sub-code for setting bit13 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-30	Fault word 1-bit14 fault code	3267	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit14 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-31	Fault word 1-bit14 fault sub-code	3268	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Used to set the fault sub-code for setting bit14 of the fault word 1 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-32	Fault word 1-bit15 fault code	3269	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays fault word 1-bit15 fault code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-33	Fault word 1-bit15 fault sub-code	3270	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								

	Description: Displays fault word 1-bit15 fault sub-code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-34	Fault word 2-bit0 fault code	3271	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit0 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-35	Fault word 2-bit0 fault sub-code	3272	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit0 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-36	Fault word 2-bit1 fault code	3273	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit1 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-37	Fault word 2-bit1 fault sub-code	3274	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								

	5：Fault sub-code 5　　11：Fault sub-code 11								
	Description： Defines the fault sub-code for setting bit1 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-38	Fault word 2-bit2 fault code	3275	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault sub-code for setting bit2 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-39	Fault word 2-bit2 fault sub-code	3276	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes　　6：Fault sub-code 6　　12：Fault sub-code 12 1：Fault sub-code 1　　7：Fault sub-code 7　　13：Fault sub-code 13 2：Fault sub-code 2　　8：Fault sub-code 8　　14：Fault sub-code 14 3：Fault sub-code 3　　9：Fault sub-code 9　　15：Fault sub-code 15 4：Fault sub-code 4　　10：Fault sub-code 10　　16：Fault sub-code 16 5：Fault sub-code 5　　11：Fault sub-code 11								
	Description： Defines the fault sub-code for setting bit2 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-40	Fault word 2-bit3 fault code	3277	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit3 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-41	Fault word 2-bit3 fault sub-code	3278	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes　　6：Fault sub-code 6　　12：Fault sub-code 12 1：Fault sub-code 1　　7：Fault sub-code 7　　13：Fault sub-code 13 2：Fault sub-code 2　　8：Fault sub-code 8　　14：Fault sub-code 14 3：Fault sub-code 3　　9：Fault sub-code 9　　15：Fault sub-code 15								

	4：Fault sub-code 4 5：Fault sub-code 5 10：Fault sub-code 10 11：Fault sub-code 11 16：Fault sub-code 16								
	Description： Defines the fault sub-code for setting bit3 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-42	Fault word 2-bit4 fault code	3279	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Displays fault word 2-bit04 fault code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-43	Fault word 2-bit4 fault sub-code	3280	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5 6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11 12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16								
	Description： Displays fault word 2-bit04 fault sub-code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-44	Fault word 2-bit5 fault code	3281	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit5 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-45	Fault word 2-bit5 fault sub-code	3282	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14								

	3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5		9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11			15：Fault sub-code 15 16：Fault sub-code 16			
	Description： Defines the fault sub-code for setting bit5 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-46	Fault word 2-bit6 fault code	3283	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault sub-code for setting bit6 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-47	Fault word 2-bit6 fault sub-code	3284	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5		6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11			12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16			
	Description： Defines the fault sub-code for setting bit6 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-48	Fault word 2-bit7 fault code	3285	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit7 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-49	Fault word 2-bit7 fault sub-code	3286	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1		6：Fault sub-code 6 7：Fault sub-code 7			12：Fault sub-code 12 13：Fault sub-code 13			

	2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5		8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11		14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16				
	Description： Defines the fault sub-code for setting bit7 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-50	Fault word 2-bit8 fault code	3287	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit8 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-51	Fault word 2-bit8 fault sub-code	3288	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5		6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11		12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16				
	Description： Defines the fault sub-code for setting bit8 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-52	Fault word 2-bit9 fault code	3289	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit9 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-53	Fault word 2-bit9 fault sub-code	3290	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes		6：Fault sub-code 6		12：Fault sub-code 12				

	1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16								
	Description： Defines the fault sub-code for setting bit9 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-54	Fault word 2-bit10 fault code	3291	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault sub-code for setting bit10 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-55	Fault word 2-bit10 fault sub-code	3292	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5 6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11 12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16								
	Description： Defines the fault sub-code for setting bit10 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-56	Fault word 2-bit11 fault code	3293	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit11 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-57	Fault word 2-bit11 fault sub-code	3294	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5		6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11		12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16				
	Description： Defines the fault sub-code for setting bit11 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-58	Fault word 2-bit12 fault code	3295	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit12 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-59	Fault word 2-bit12 fault sub-code	3296	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：All fault sub-codes 1：Fault sub-code 1 2：Fault sub-code 2 3：Fault sub-code 3 4：Fault sub-code 4 5：Fault sub-code 5		6：Fault sub-code 6 7：Fault sub-code 7 8：Fault sub-code 8 9：Fault sub-code 9 10：Fault sub-code 10 11：Fault sub-code 11		12：Fault sub-code 12 13：Fault sub-code 13 14：Fault sub-code 14 15：Fault sub-code 15 16：Fault sub-code 16				
	Description： Defines the fault sub-code for setting bit12 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-60	Fault word 2-bit13 fault code	3297	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the fault code for setting bit13 of fault word 2 to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-61	Fault word 2-bit13 fault sub-code	3298	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: All fault sub-codes 6: Fault sub-code 6 12: Fault sub-code 12 1: Fault sub-code 1 7: Fault sub-code 7 13: Fault sub-code 13 2: Fault sub-code 2 8: Fault sub-code 8 14: Fault sub-code 14 3: Fault sub-code 3 9: Fault sub-code 9 15: Fault sub-code 15 4: Fault sub-code 4 10: Fault sub-code 10 16: Fault sub-code 16 5: Fault sub-code 5 11: Fault sub-code 11
	Description: Defines the fault sub-code for setting bit13 of fault word 2 to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-62	Fault word 2-bit14 fault code	3299	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit14 of fault word 2 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-63	Fault word 2-bit14 fault sub-code	3300	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: All fault sub-codes 6: Fault sub-code 6 12: Fault sub-code 12 1: Fault sub-code 1 7: Fault sub-code 7 13: Fault sub-code 13 2: Fault sub-code 2 8: Fault sub-code 8 14: Fault sub-code 14 3: Fault sub-code 3 9: Fault sub-code 9 15: Fault sub-code 15 4: Fault sub-code 4 10: Fault sub-code 10 16: Fault sub-code 16 5: Fault sub-code 5 11: Fault sub-code 11								
	Description: Defines the fault sub-code for setting bit14 of fault word 2 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-64	Fault word 2-bit15 fault code	3301	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the fault code for setting bit15 of fault word 2 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
H10-65	Fault word 2-bit15 fault	3302	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	sub-code								
	Value: 0: All fault sub-codes 1: Fault sub-code 1 2: Fault sub-code 2 3: Fault sub-code 3 4: Fault sub-code 4 5: Fault sub-code 5 6: Fault sub-code 6 7: Fault sub-code 7 8: Fault sub-code 8 9: Fault sub-code 9 10: Fault sub-code 10 11: Fault sub-code 11 12: Fault sub-code 12 13: Fault sub-code 13 14: Fault sub-code 14 15: Fault sub-code 15 16: Fault sub-code 16								
	Description: Defines the fault sub-code for setting bit15 of fault word 2 to 1.								

L0 Word-to-bit conversion function

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-00	Input of word-to-bit function 1	2047	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input of word-to-bit function 1. Note: When the input source of word-to-bit function 1 is word connector, the output U2-48 to U2-63 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U2-48 to U2-63 corresponds to the input bit0 to bit15 of the high 16 bits. In word-to-bit output, the related bit can be inverted through L0-74 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-01	Input of word-to-bit conversion 2	2048	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description: Defines the data input of word-to-bit function 2. Note: When the input source of word-to-bit function 2 is word connector, the output U2-64 to U2-79 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U2-64 to U2-79 corresponds to the input bit0 to bit15 of the high 16 bits. In word-to-bit output, the related bit can be inverted through L0-75 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-02	Input of word-to-bit conversion 3	2049	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input of word-to-bit function 3. Note: When the input source of word-to-bit function 3 is word connector, the output U2-80 to U2-95 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U2-80 to U2-95 corresponds to the input bit0 to bit15 of the high 16 bits. In word-to-bit output, the related bit can be inverted through L0-76 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-03	Input of word-to-bit conversion 4	3339	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input of word-to-bit function 4. Note: When the input source of word-to-bit function 4 is word connector, the output U4-76 to U4-91 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U4-76 to U4-91 corresponds to the input bit0 to								

	bit15 of the high 16 bits. In word-to-bit output, the related bit can be inverted through L0-77 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-10	bit0 selection for bit-to-word conversion function 1	2050	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit0 of bit-to-word function 1. Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-11	bit1 selection for bit-to-word conversion function 1	2051	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit1 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word								

	function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-12	bit2 selection for bit-to-word conversion function 1	2052	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid

Others: B connector

Description:

Defines the data input of bit2 of bit-to-word function 1.

Value description:

0: Invalid

Others: B connector

Note:

L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output).

In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-13	bit3 selection for bit-to-word conversion function 1	2053	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid

Others: B connector

Description:

Defines the data input of bit3 of bit-to-word function 1.

Value description:

0: Invalid

Others: B connector

	Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-14	bit4 selection for bit-to-word conversion function 1	2054	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit4 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-15	bit5 selection for bit-to-word conversion function 1	2055	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit5 of bit-to-word function 1.								

	Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-16	Defines the data input of bit6 of bit-to-word function 1.	2056	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit6 of bit-to-word function 1. Value description: 0: Invalid Others: K connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-17	bit7 selection for bit-to-word conversion function 1	2057	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0： Invalid Others： B connector
	Description： Defines the data input of bit7 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-18	bit8 selection for bit-to-word conversion function 1	2058	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit8 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-19	bit9 selection for bit-to-word	2059	Refer to	0	Unsigned	1	Real time	General	Effective in real

	conversion function 1		"Value"		16 bit		changes	user	time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit9 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-20	Bit10 selection for bit-to-word conversion function 1	2060	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit10 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-21	Bit11 selection for bit-to-word conversion function 1	2061	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit11 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-22	Bit12 selection for bit-to-word conversion function 1	2062	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit12 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note:								

	L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-23	Bit13 selection for bit-to-word conversion function 1	2063	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit13 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-24	Bit14 selection for bit-to-word conversion function 1	2064	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit14 of bit-to-word function 1. Value description:								

	0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-25	Bit15 selection for bit-to-word conversion function 1	2065	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit15 of bit-to-word function 1. Value description: 0: Invalid Others: B connector Note: L0-10 (bit0 selection of bit-to-word function 1) to L0-25 (bit15 selection of bit-to-word function 1) can be combined to form a 16-bit data from low to high bits through bit-to-word function 1, which can be monitored through U5-86 (Bit-to-word function 1 output). In word-to-bit output, the related bit can be inverted through L0-78 (Positive/Negative logic of word-to-bit function 1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-26	bit0 selection for bit-to-word conversion function 2	2066	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								

	Description： Defines the data input of bit00 of bit-to-word function 2. Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-27	bit1 selection for bit-to-word conversion function 2	2067	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit01 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-28	bit2 selection for bit-to-word conversion function 2	2068	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								

	Description: Defines the data input of bit02 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-29	bit3 selection for bit-to-word conversion function 2	2069	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit03 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-30	bit4 selection for bit-to-word conversion function 2	2070	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： B connector
	Description： Defines the data input of bit04 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-31	bit5 selection for bit-to-word conversion function 2	2071	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit05 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	bit6 selection for bit-to-word conversion function 2	2072	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
L0-32	Description： Defines the data input of bit6 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	bit7 selection for bit-to-word conversion function 2	2073	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
L0-33	Description： Defines the data input of bit07 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-								

	to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-34	bit8 selection for bit-to-word conversion function 2	2074	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit08 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-35	bit9 selection for bit-to-word conversion function 2	2075	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit09 of bit-to-word function 2. Value description: 0: Invalid Others: B connector								

	Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-36	Bit10 selection for bit-to-word conversion function 2	2076	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit10 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-37	Bit11 selection for bit-to-word conversion function 2	2077	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit11 of bit-to-word function 2.								

	Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-38	Bit12 selection for bit-to-word conversion function 2	2078	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit12 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-39	Bit13 selection for bit-to-word conversion function 2	2079	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid								

	Others： B connector
	Description： Defines the data input of bit13 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-40	Bit14 selection for bit-to-word conversion function 2	2080	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit14 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-41	Bit15 selection for bit-to-word conversion	2081	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	function 2								time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit15 of bit-to-word function 2. Value description: 0: Invalid Others: B connector Note: L0-26 (bit0 selection of bit-to-word function 2) to L0-41 (bit15 selection of bit-to-word function 2) can be combined to form a 16-bit data from low to high bits through bit-to-word function 2, which can be monitored through U5-87 (Bit-to-word function 2 output). In word-to-bit output, the related bit can be inverted through L0-79 (Positive/Negative logic of word-to-bit function 2).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-42	bit0 selection for bit-to-word conversion function 3	2082	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit00 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L0-43	bit1 selection for bit-to-word conversion function 3	2083	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit01 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-44	bit2 selection for bit-to-word conversion function 3	2084	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit02 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form								

	a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-45	bit3 selection for bit-to-word conversion function 3	2085	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit03 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-46	bit4 selection for bit-to-word conversion function 3	2086	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit04 of bit-to-word function 3. Value description: 0: Invalid								

	Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-47	bit5 selection for bit-to-word conversion function 3	2087	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit05 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-48	bit6 selection for bit-to-word conversion function 3	2088	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description:								

	Defines the data input of bit06 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-49	bit7 selection for bit-to-word conversion function 3	2089	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit07 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-50	bit8 selection for bit-to-word conversion function 3	2090	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： B connector
	Description： Defines the data input of bit08 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-51	bit9 selection for bit-to-word conversion function 3	2091	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit09 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L0-52	Bit10 selection for bit-to-word conversion function 3	2092	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit10 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-53	Bit11 selection for bit-to-word conversion function 3	2093	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit11 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-								

	to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-54	Bit12 selection for bit-to-word conversion function 3	2094	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit12 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-55	Bit13 selection for bit-to-word conversion function 3	2095	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of bit13 of bit-to-word function 3. Value description: 0: Invalid Others: B connector								

	Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-56	Bit14 selection for bit-to-word conversion function 3	2096	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit14 of bit-to-word function 3. Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-57	Bit15 selection for bit-to-word conversion function 3	2097	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit15 of bit-to-word function 3.								

	Value description: 0: Invalid Others: B connector Note: L0-42 (bit0 selection of bit-to-word function 3) to L0-57 (bit15 selection of bit-to-word function 3) can be combined to form a 16-bit data from low to high bits through bit-to-word function 3, which can be monitored through U5-88 (Bit-to-word function 3 output). In word-to-bit output, the related bit can be inverted through L0-80 (Positive/Negative logic of word-to-bit function 3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-58	bit0 selection for bit-to-word conversion function 4	2098	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit00 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-59	bit1 selection for bit-to-word conversion function 4	2099	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid								

	Others： B connector
	Description： Defines the data input of bit01 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-60	bit2 selection for bit-to-word conversion function 4	2100	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit02 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-61	bit3 selection for bit-to-word conversion	2101	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	function 4								time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit03 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-62	bit4 selection for bit-to-word conversion function 4	2102	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit04 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L0-63	bit5 selection for bit-to-word conversion function 4	2103	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit05 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-64	bit6 selection for bit-to-word conversion function 4	2104	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit06 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form								

	a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-65	bit7 selection for bit-to-word conversion function 4	2105	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid

Others: B connector

Description:

Defines the data input of bit07 of bit-to-word function 4.

Value description:

0: Invalid

Others: B connector

Note:

L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-66	bit8 selection for bit-to-word conversion function 4	2106	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid

Others: B connector

Description:

Defines the data input of bit08 of bit-to-word function 4.

Value description:

0: Invalid

	Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-67	bit9 selection for bit-to-word conversion function 4	2107	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit09 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-68	Bit10 selection for bit-to-word conversion function 4	2108	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description：								

	Defines the data input of bit10 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-69	Bit11 selection for bit-to-word conversion function 4	2109	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit11 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-70	Bit12 selection for bit-to-word conversion function 4	2110	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： B connector
	Description： Defines the data input of bit12 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-71	Bit13 selection for bit-to-word conversion function 4	2111	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of bit13 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Bit14 selection for bit-to-word conversion function 4	2112	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
L0-72	Description： Defines the data input of bit14 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-to-bit function 4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Bit15 selection for bit-to-word conversion function 4	2113	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
L0-73	Description： Defines the data input of bit15 of bit-to-word function 4. Value description: 0: Invalid Others: B connector Note: L0-58 (bit0 selection of bit-to-word function 4) to L0-73 (bit15 selection of bit-to-word function 4) can be combined to form a 16-bit data from low to high bits through bit-to-word function 4, which can be monitored through U5-89 (Bit-to-word function 4 output). In word-to-bit output, the related bit can be inverted through L0-81 (Positive/Negative logic of word-								

	to-bit function 4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-74	Positive and negative logic of word-to-bit function 1	6336	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

Description:

Defines the positive/negative logic of word-to-bit function 1.

Value description:

bit0:

0: Not inverted

1: Inverted

bit1:

	0: Not inverted 1: Inverted bit2: 0: Not inverted 1: Inverted bit3: 0: Not inverted 1: Inverted bit4: 0: Not inverted 1: Inverted bit5: 0: Not inverted 1: Inverted bit6: 0: Not inverted 1: Inverted bit7: 0: Not inverted 1: Inverted bit8: 0: Not inverted 1: Inverted bit9: 0: Not inverted 1: Inverted bit10: 0: Not inverted 1: Inverted bit11: 0: Not inverted 1: Inverted bit12: 0: Not inverted 1: Inverted bit13: 0: Not inverted 1: Inverted bit14: 0: Not inverted 1: Inverted bit15: 0: Not inverted

1: Inverted

Note:

If the related bit is enabled, the related bit is inverted when word-to-bit function 1 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-75	Positive and negative logic of word-to-bit function 2	6337	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

Description:

Defines the positive/negative logic of word-to-bit function 2.

Value description:

bit0:

0: Not inverted

	1: Inverted bit1: 0: Not inverted 1: Inverted bit2: 0: Not inverted 1: Inverted bit3: 0: Not inverted 1: Inverted bit4: 0: Not inverted 1: Inverted bit5: 0: Not inverted 1: Inverted bit6: 0: Not inverted 1: Inverted bit7: 0: Not inverted 1: Inverted bit8: 0: Not inverted 1: Inverted bit9: 0: Not inverted 1: Inverted bit10: 0: Not inverted 1: Inverted bit11: 0: Not inverted 1: Inverted bit12: 0: Not inverted 1: Inverted bit13: 0: Not inverted 1: Inverted bit14: 0: Not inverted 1: Inverted

bit15:

0: Not inverted

1: Inverted

Note:

If the related bit is enabled, the related bit is inverted when word-to-bit function 2 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-76	Positive and negative logic of word-to-bit function 3	6338	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

Description:

Defines the positive/negative logic of word-to-bit function 3.

Value description:

	bit0: 0: Not inverted 1: Inverted bit1: 0: Not inverted 1: Inverted bit2: 0: Not inverted 1: Inverted bit3: 0: Not inverted 1: Inverted bit4: 0: Not inverted 1: Inverted bit5: 0: Not inverted 1: Inverted bit6: 0: Not inverted 1: Inverted bit7: 0: Not inverted 1: Inverted bit8: 0: Not inverted 1: Inverted bit9: 0: Not inverted 1: Inverted bit10: 0: Not inverted 1: Inverted bit11: 0: Not inverted 1: Inverted bit12: 0: Not inverted 1: Inverted bit13: 0: Not inverted 1: Inverted bit14:

0: Not inverted

1: Inverted

bit15:

0: Not inverted

1: Inverted

Note:

If the related bit is enabled, the related bit is inverted when word-to-bit function 3 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-77	Positive and negative logic of word-to-bit function 4	6339	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

Description:

Defines the positive/negative logic of word-to-bit function 4.

	Value description: bit0: 0: Not inverted 1: Inverted bit1: 0: Not inverted 1: Inverted bit2: 0: Not inverted 1: Inverted bit3: 0: Not inverted 1: Inverted bit4: 0: Not inverted 1: Inverted bit5: 0: Not inverted 1: Inverted bit6: 0: Not inverted 1: Inverted bit7: 0: Not inverted 1: Inverted bit8: 0: Not inverted 1: Inverted bit9: 0: Not inverted 1: Inverted bit10: 0: Not inverted 1: Inverted bit11: 0: Not inverted 1: Inverted bit12: 0: Not inverted 1: Inverted bit13: 0: Not inverted

	1: Inverted bit14: 0: Not inverted 1: Inverted bit15: 0: Not inverted 1: Inverted Note: If the related bit is enabled, the related bit is inverted when word-to-bit function 4 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-78	Positive and negative logic of bit-to-word function 1	6340	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

	Description： Defines the positive/negative logic of bit-to-word function 1. Value description: bit0: 0: Not inverted 1: Inverted bit1: 0: Not inverted 1: Inverted bit2: 0: Not inverted 1: Inverted bit3: 0: Not inverted 1: Inverted bit4: 0: Not inverted 1: Inverted bit5: 0: Not inverted 1: Inverted bit6: 0: Not inverted 1: Inverted bit7: 0: Not inverted 1: Inverted bit8: 0: Not inverted 1: Inverted bit9: 0: Not inverted 1: Inverted bit10: 0: Not inverted 1: Inverted bit11: 0: Not inverted 1: Inverted bit12: 0: Not inverted 1: Inverted

bit13:
0: Not inverted
1: Inverted
bit14:
0: Not inverted
1: Inverted
bit15:
0: Not inverted
1: Inverted
Note:
If the related bit is enabled, the corresponding bit is inverted when bit-to-word function 1 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-79	Positive and negative logic of bit-to-word function 2	6341	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted

bit15		1: Inverted	

Description：

Defines the positive/negative logic of bit-to-word function 2.

Value description:

bit0:

0: Not inverted

1: Inverted

bit1:

0: Not inverted

1: Inverted

bit2:

0: Not inverted

1: Inverted

bit3:

0: Not inverted

1: Inverted

bit4:

0: Not inverted

1: Inverted

bit5:

0: Not inverted

1: Inverted

bit6:

0: Not inverted

1: Inverted

bit7:

0: Not inverted

1: Inverted

bit8:

0: Not inverted

1: Inverted

bit9:

0: Not inverted

1: Inverted

bit10:

0: Not inverted

1: Inverted

bit11:

0: Not inverted

1: Inverted

bit12:

	0: Not inverted 1: Inverted bit13: 0: Not inverted 1: Inverted bit14: 0: Not inverted 1: Inverted bit15: 0: Not inverted 1: Inverted Note: If the related bit is enabled, the corresponding bit is inverted when bit-to-word function 2 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-80	Positive and negative logic of bit-to-word function 3	6342	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted
bit11		1: Inverted
bit12		1: Inverted

bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

Description:

Defines the positive/negative logic of bit-to-word function 3.

Value description:

bit0:

0: Not inverted

1: Inverted

bit1:

0: Not inverted

1: Inverted

bit2:

0: Not inverted

1: Inverted

bit3:

0: Not inverted

1: Inverted

bit4:

0: Not inverted

1: Inverted

bit5:

0: Not inverted

1: Inverted

bit6:

0: Not inverted

1: Inverted

bit7:

0: Not inverted

1: Inverted

bit8:

0: Not inverted

1: Inverted

bit9:

0: Not inverted

1: Inverted

bit10:

0: Not inverted

1: Inverted

bit11:

0: Not inverted
1: Inverted
bit12:
0: Not inverted
1: Inverted
bit13:
0: Not inverted
1: Inverted
bit14:
0: Not inverted
1: Inverted
bit15:
0: Not inverted
1: Inverted
Note:
If the related bit is enabled, the corresponding bit is inverted when bit-to-word function 3 is being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L0-81	Positive and negative logic of bit-to-word function 4	6343	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0		1: Inverted
bit1		1: Inverted
bit2		1: Inverted
bit3		1: Inverted
bit4		1: Inverted
bit5		1: Inverted
bit6		1: Inverted
bit7		1: Inverted
bit8		1: Inverted
bit9		1: Inverted
bit10		1: Inverted

bit11		1: Inverted
bit12		1: Inverted
bit13		1: Inverted
bit14		1: Inverted
bit15		1: Inverted

Description：

Defines the positive/negative logic of bit-to-word function 4.

Value description:

bit0:

0: Not inverted

1: Inverted

bit1:

0: Not inverted

1: Inverted

bit2:

0: Not inverted

1: Inverted

bit3:

0: Not inverted

1: Inverted

bit4:

0: Not inverted

1: Inverted

bit5:

0: Not inverted

1: Inverted

bit6:

0: Not inverted

1: Inverted

bit7:

0: Not inverted

1: Inverted

bit8:

0: Not inverted

1: Inverted

bit9:

0: Not inverted

1: Inverted

bit10:

	0: Not inverted 1: Inverted bit11: 0: Not inverted 1: Inverted bit12: 0: Not inverted 1: Inverted bit13: 0: Not inverted 1: Inverted bit14: 0: Not inverted 1: Inverted bit15: 0: Not inverted 1: Inverted Note: If the related bit is enabled, the corresponding bit is inverted when bit-to-word function 4 is being outputted.

L1 Brake control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-00	Brake function	2135	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： No brake 1： With brake but no detection information 2： With brake and detection information								
	Description： Before the drive runs, the mechanical brake is used to block the motor and the driven device in the zero speed state. Value description: 0: No brake - The brake function is not enabled. 1: With brake but no detection information - The brake is controlled only for the set time, and the actual state is not detected. 2. With brake and detection information - The system detects the brake feedback state set by L1-03. If the brake release feedback signal is not detected within the time set by L1-04, F84-1 is reported, indicating that brake cannot be released.								

	Note: d0-16 and L1-00 are used to enable brake control and set whether feedback detection is supported. L1-23, L1-24, and L1-25 can be used to set the brake release conditions. For example, you can set the brake to be released only when the output torque is greater than a specified value. This ensures that the gravity load does not slip at the moment of brake release. Note that the system speed loop neither works or generates torque output before the brake is released. Therefore, after setting the brake release conditions, set a starting torque through L1-06 to meet the brake release conditions.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-01	Brake release action time	2136	0.00-10.00	0.20	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the action time for brake release, which is set based on the actual brake release time. Note: If L1-00 is set to 1, the device waits for the time set by L1-01 and exits this stage after the set delay elapses. When L1-00 is set to 2, the feedback point of L1-03 is detected to check whether it is high level. When high level is detected, the brake release action is canceled. When the delay time defined by L1-01 elapses and the feedback (L1-03) keeps being low level, the brake detection error will be triggered. When the error persists after the time defined by L1-04 elapses, F84-1 (Brake release fault) will be triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-02	Brake apply action time	2137	0.00-60.00	0.20	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the brake apply action time, which is set based on the actual brake apply time. Note: If L1-00 is set to 1, the device waits for the time set by L1-02 and exits this stage after the set delay elapses. When L1-00 is set to 2, the feedback point of L1-03 is detected to check whether it is low level. When low level is detected, the brake apply action is canceled. When the delay time defined by L1-02 elapses and the feedback (L1-03) keeps being high level, the brake detection error will be triggered. When the error persists after the time defined by L1-04 elapses, F84-2 (Brake apply fault) will be triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-03	Brake feedback point source	2147	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Applied 4: DI3 8: DIL								

	1：Released	5：DI4	9：HDI1
	2：DI1	6：DI5	10：HDI2
	3：DI2	7：DI6	Others：B connector
	Description： Defines the brake feedback point source.		

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-04	Brake feedback fault delay	2148	0.00-30.00	2.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description：
Defines the brake feedback fault delay time.

Note:
If L1-00 is set to 1, the device waits for the time set by L1-02 and exits this stage after the set delay elapses. When L1-00 is set to 2, the feedback point of L1-03 is detected to check whether it is low level. When low level is detected, the brake apply action is canceled. When the delay time defined by L1-02 elapses and the feedback (L1-03) keeps being high level, the brake detection error will be triggered. When the error persists after the time defined by L1-04 elapses, F84-2 (Brake apply fault) will be triggered.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-06	Starting torque source in vector control	2523	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value：
0：0
1：Automatic torque retention
2：L1-07
Others：K connector

Description：
Defines the starting torque source of the brake, which is only active in vector control. See details in L1-00.

Value description:
0: Disabled - No starting torque
1: Automatic torque retention - The torque before the brake is applied is recorded every time at stop, which is used as the starting torque at next start directly.
2: L1-07 - Set through L1-07
Others: K connector - Set through the connector

Note:
When the load changes, the function of automatic retention of starting torque is not allowed. Set a proper starting torque according to current load. When the automatic memory of starting torque function is activated for the first time, the initial

	value of the torque is the value of L1-07. Through setting L1-08, you can adjust the coefficient of automatic torque retention, such as L1-08 = 80%. If the torque recorded is 50% during stop, only 40% of the starting torque is established.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-07	Digital setting of starting torque	2524	-200 to +200	0	Signed 16 bits	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the digital setting of the starting torque. This parameter is active when L1-06 is set to 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-08	Automatic torque retention gain coefficient	2525	50-150	100	Signed 16 bits	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the automatic torque retention gain coefficient. Note: When the load changes, the function of automatic retention of starting torque is not allowed. Set a proper starting torque according to current load. When the automatic memory of starting torque function is activated for the first time, the initial value of the torque is the value of L1-07. Through setting L1-08, you can adjust the coefficient of automatic torque retention, such as L1-08 = 80%. If the torque recorded is 50% during stop, only 40% of the starting torque is established.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-09	Upper limit of starting torque	5027	-50 to +200	200	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the upper limit of the starting torque. Note: This parameter is active when L1-06 is not 0. If L1-10 is set to 10% and L1-09 is set to 80%, the starting torque can be limited to a positive value between 10% and 80%.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-10	Lower limit of starting torque	5028	-200 to +50	-200	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the lower limit of starting torque.								

	Note: This parameter is active when L1-06 is not 0. If L1-10 is set to 10% and L1-09 is set to 80%, the starting torque can be limited to a positive value between 10% and 80%.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-11	Starting speed	2139	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Disabled	4: DI3	8: DIL
1: Enabled	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2
3: DI2	7: DI6	Others: B connector

Description:

Defines whether the starting speed of the brake is enabled.

Value description:

0: Disabled - After the brake is released, the speed accelerates from 0.

1: Enabled - After the brake is released, the speed accelerates from L1-12.

2: DI1

3: DI2

4: DI3

5: DI4

6: DI5

7: DI6

8: DIL

9: HDI1

10: HDI2

Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-12	Digital setting of starting speed	2522	-20 to +20	0	Signed 16 bits	0.1	Shutdown change	General user	Effective in real time

Description:

Defines the starting speed when the brake is released. It is active only when L1-11 is enabled.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-14	Source for brake apply command at zero speed	2143	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value： 0： Invalid 1： Valid Others： B connector
	Description： Defines the source for brake apply command at zero speed. Value description: 0: Invalid 1: Valid - When U9-08 is set to 0, the brake apply command is triggered automatically. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-15	Forced brake apply command source	2146	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Disabled 1： Enabled 2： DI1 3： DI2 4： DI3 5： DI4 6： DI5 7： DI6 8： DIL 9： HDI1 10： HDI2 Others： B connector								
	Description： Defines the source for forced brake apply command. Value description: 0: Invalid 1: Valid - The brake apply signal (U1-11 = 0) is outputted immediately. 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-16	Speed threshold upon brake apply	2144	1-200	3	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time

	Description： Defines the speed threshold upon brake apply. Note: When the actual speed keeps lower than L1-16 for a period longer than L1-17, the brake apply condition is met.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-17	Brake apply delay	2145	0.00-10.00	0.02	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the brake apply delay time. Note: When the actual speed keeps lower than L1-16 for a period longer than L1-17, the brake apply condition is met.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-22	Brake release command source	2138	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Disabled 1：Enabled 2：DI1 3：DI2 4：DI3 5：DI4 6：DI5 7：DI6 8：DIL 9：HDI1 10：HDI2 Others：B connector								
	Description： Defines the brake release command source. Note: If an external brake control condition is met, the brake cannot be released even when A7-16 is set to 0. When the brake is released, setting L1-22 to 0 will not close the brake.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-23	Source of brake release comparison value	2140	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the source of brake release comparison value.								

	Note: This parameter specifies an additional condition for determining brake release. If L1-23 is set to 0, the condition is invalid. After L1-23 is set to a connector, the brake release condition is met, and the connector value is greater than the threshold for a duration indicated by L1-25, the brake be released.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-24	Comparison threshold of brake release	2141	0-200	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the comparison threshold of brake release. Note: This parameter specifies an additional condition for determining brake release. If L1-23 is set to 0, the condition is invalid. After L1-23 is set to a connector, the brake release condition is met, and the connector value is greater than the threshold for a duration indicated by L1-25, the brake be released.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-25	Brake release delay	2142	0.00-10.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the brake release delay. Note: This parameter specifies an additional condition for determining brake release. If L1-23 is set to 0, the condition is invalid. After L1-23 is set to a connector, the brake release condition is met, and the connector value is greater than the threshold for a duration indicated by L1-25, the brake be released.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-30	Brake auto-test enable	5020	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable automatic test of the brake. Value description: 0: Inhibited								

	1: Enabled Others: B connector Note: You can control whether to enable the automatic rest through the connector. When this parameter is set to 1, the detection action is executed before completion of excitation and brake release.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-31	Brake test duration	5021	0.01-30.00	0.30	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the brake test duration.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-32	Maximum validation torque for brake test	5022	0-200	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum validation torque for brake test. Note: During the test, the output torque increases gradually but the maximum setpoint cannot exceed the torque specified by this parameter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-33	Torque direction of brake test	5023	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not reversed 1: Reversed Others: B connector								
	Description: Defines the torque direction of brake test. Value description: 0: Not reversed 1: Reversed Others: B connector Note:								

	Defines the torque direction, which can be modified through the connector. The output is generated and the brake is tested based on positive torque by default.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-34	Slip speed threshold of brake test	5024	0.01-30	0.1	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the slip speed threshold of brake test. Note: During brake test, if the motor speed keeps exceeding the value of L1-34 for a period longer than that specified by L1-35, the motor starts rotating actually.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L1-35	Slip speed duration of brake test	5025	0.000-10.000	0.004	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the slip speed duration of brake test. Note: During brake test, if the motor speed keeps exceeding the value of L1-34 for a period longer than that specified by L1-35, the motor starts rotating actually.								

L2 Logic operation function

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-00	Input 1 of logical AND module A	2301	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 data of logical AND module A. Value description: 1: Invalid Others: B connector								

	Note: If L2-00 (Input logical AND module A input 1), L2-01 (Logical AND module A input 2), L2-02 (Logical AND module A input 3), and L2-03 (Logical AND module A input 4) are set to 1, the value is U3-00 (Output logical AND module A output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-01	Input 2 of logical AND module A	2302	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 data of logical AND module A. Note: If L2-00 (Input logical AND module A input 1), L2-01 (Logical AND module A input 2), L2-02 (Logical AND module A input 3), and L2-03 (Logical AND module A input 4) are set to 1, the value is U3-00 (Output logical AND module A output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-02	Input 3 of logical AND module A	2303	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 data of logical AND module A. Note: If L2-00 (Input logical AND module A input 1), L2-01 (Logical AND module A input 2), L2-02 (Logical AND module A input 3), and L2-03 (Logical AND module A input 4) are set to 1, the value is U3-00 (Output logical AND module A output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-03	Input 4 of logical AND module A	2304	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid								

	Others： B connector
	Description： Defines input 4 data of logical AND module A. Note: If L2-00 (Input logical AND module A input 1), L2-01 (Logical AND module A input 2), L2-02 (Logical AND module A input 3), and L2-03 (Logical AND module A input 4) are set to 1, the value is U3-00 (Output logical AND module A output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-04	Input 1 of logical AND module B	2305	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 1 data of logical AND module B. Note: If L2-04 (Input logical AND module B input 1), L2-05 (Logical AND module B input 2), L2-06 (Logical AND module B input 3), and L2-07 (Logical AND module B input 4) are set to 1, the value is U3-01 (Output logical AND module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-05	Input 2 of logical AND module B	2306	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 2 data of logical AND module B. Note: If L2-04 (Input logical AND module B input 1), L2-05 (Logical AND module B input 2), L2-06 (Logical AND module B input 3), and L2-07 (Logical AND module B input 4) are set to 1, the value is U3-01 (Output logical AND module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-06	Input 3 of logical AND module B	2307	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 data of logical AND module B. Note: If L2-04 (Input logical AND module B input 1), L2-05 (Logical AND module B input 2), L2-06 (Logical AND module B input 3), and L2-07 (Logical AND module B input 4) are set to 1, the value is U3-01 (Output logical AND module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-07	Input 4 of logical AND module B	2308	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 data of logical AND module B. Note: If L2-04 (Input logical AND module B input 1), L2-05 (Logical AND module B input 2), L2-06 (Logical AND module B input 3), and L2-07 (Logical AND module B input 4) are set to 1, the value is U3-01 (Output logical AND module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-08	Input 1 of logical AND module C	2309	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 data of logical AND module C. Note: If L2-08 (Input logical AND module C input 1), L2-09 (Logical AND module C input 2), L2-10 (Logical AND module C input 3), and L2-11 (Logical AND module C input 4) are set to 1, the value is U3-02 (Output logical AND module C output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-09	Input 2 of logical AND module C	2310	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 data of logical AND module C. Note: If L2-08 (Input logical AND module C input 1), L2-09 (Logical AND module C input 2), L2-10 (Logical AND module C input 3), and L2-11 (Logical AND module C input 4) are set to 1, the value is U3-02 (Output logical AND module C output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-10	Input 3 of logical AND module C	2311	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 data of logical AND module C. Note: If L2-08 (Input logical AND module C input 1), L2-09 (Logical AND module C input 2), L2-10 (Logical AND module C input 3), and L2-11 (Logical AND module C input 4) are set to 1, the value is U3-02 (Output logical AND module C output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-11	Input 4 of logical AND module C	2312	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 data of logical AND module C. Note: If L2-08 (Input logical AND module C input 1), L2-09 (Logical AND module C input 2), L2-10 (Logical AND module C input 3),								

	and L2-11 (Logical AND module C input 4) are set to 1, the value is U3-02 (Output logical AND module C output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-12	Input 1 of logical AND module D	2313	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 data of logical AND module D. Note: If L2-12 (Input logical AND module D input 1), L2-13 (Logical AND module D input 2), L2-14 (Logical AND module D input 3), and L2-15 (Logical AND module D input 4) are set to 1, the value is U3-03 (Output logical AND module D output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-13	Input 2 of logical AND module D	2314	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 data of logical AND module D. Note: If L2-12 (Input logical AND module D input 1), L2-13 (Logical AND module D input 2), L2-14 (Logical AND module D input 3), and L2-15 (Logical AND module D input 4) are set to 1, the value is U3-03 (Output logical AND module D output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-14	Input 3 of logical AND module D	2315	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description:								

	Defines input 3 data of logical AND module D. Note: If L2-12 (Input logical AND module D input 1), L2-13 (Logical AND module D input 2), L2-14 (Logical AND module D input 3), and L2-15 (Logical AND module D input 4) are set to 1, the value is U3-03 (Output logical AND module D output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-15	Input 4 of logical AND module D	2316	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 data of logical AND module D. Note: If L2-12 (Input logical AND module D input 1), L2-13 (Logical AND module D input 2), L2-14 (Logical AND module D input 3), and L2-15 (Logical AND module D input 4) are set to 1, the value is U3-03 (Output logical AND module D output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-16	Input of logical NOT module A	2317	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module A. Note: If L2-16 (Logical NOT module A input) is 1, then U3-04 (Output logical NOT module A output) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-17	Input of logical NOT module B	2318	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： B connector
	Description： Defines the data input of logical NOT module B. Note: If L2-17 (Logical NOT module B input) is 1, then U3-05 (Output logical NOT module B output) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-18	Input of logical NOT module C	2319	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of logical NOT module C. Note: If L2-18 (Logical NOT module C input) is 1, then U3-06 (Output logical NOT module C output) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-19	Input of logical NOT module D	2320	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data input of logical NOT module D. Note: If L2-19 (Logical NOT module D input) is 1, then U3-07 (Output logical NOT module D output) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-20	Input of logical NOT module E	2321	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description：								

	Defines the data input of logical NOT module E. Note: If L2-20 (Logical NOT module E input) is 1, then U3-08 (Output logical NOT module E output) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-21	Input of logical NOT module F	2322	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module F. Note: If L2-21 (Logical NOT module F input) is 1, then U3-09 (Output logical NOT module F output) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-22	Input of logical NOT module G	2323	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module G. Note: If L2-22 (Logical NOT module G input) is 1, then U3-10 (Output logical NOT module G output) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-23	Input of logical NOT module H	2324	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module H.								

	Note: If L2-23 (Logical NOT module H input) is 1, then U3-11 (Output logical NOT module H output) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-24	Input 1 of logical OR module A	2325	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical AND/OR module A. Note: As long as one of L2-24 (Input logical OR module A input 1), L2-25 (Logical OR module A input 2), L2-26 (Logical OR module A input 3), and L2-27 (Logical OR module A input 4) is set to 1, the value is U3-12 (Output logical OR module A output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-25	Input 2 of logical OR module A	2326	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 data of logical OR module A. Note: As long as one of L2-24 (Input logical OR module A input 1), L2-25 (Logical OR module A input 2), L2-26 (Logical OR module A input 3), and L2-27 (Logical OR module A input 4) is set to 1, the value is U3-12 (Output logical OR module A output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-26	Input 3 of logical OR module A	2327	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description:								

	Defines input 3 data of logical OR module A. Note: As long as one of L2-24 (Input logical OR module A input 1), L2-25 (Logical OR module A input 2), L2-26 (Logical OR module A input 3), and L2-27 (Logical OR module A input 4) is set to 1, the value is U3-12 (Output logical OR module A output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-27	Input 4 of logical OR module A	2328	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 data of logical OR module A. Note: As long as one of L2-24 (Input logical OR module A input 1), L2-25 (Logical OR module A input 2), L2-26 (Logical OR module A input 3), and L2-27 (Logical OR module A input 4) is set to 1, the value is U3-12 (Output logical OR module A output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-28	Input 1 of logical OR module B	2329	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 data of logical OR module B. Note: As long as one of L2-28 (Logical OR module B input 1), L2-29 (Logical OR module B input 2), L2-30 (Logical OR module B input 3), and L2-31 (Logical OR module B input 4) is set to 1, the value is U3-13 (Output logical OR module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-29	Input 2 of logical OR module B	2330	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines input 2 data of logical OR module B. Note: As long as one of L2-28 (Logical OR module B input 1), L2-29 (Logical OR module B input 2), L2-30 (Logical OR module B input 3), and L2-31 (Logical OR module B input 4) is set to 1, the value is U3-13 (Output logical OR module B output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-30	Input 3 of logical OR module B	2331	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 3 data of logical OR module B. Note: As long as one of L2-28 (Logical OR module B input 1), L2-29 (Logical OR module B input 2), L2-30 (Logical OR module B input 3), and L2-31 (Logical OR module B input 4) is set to 1, the value is U3-13 (Output logical OR module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-31	Input 4 of logical OR module B	2332	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 4 data of logical OR module B. Note: As long as one of L2-28 (Logical OR module B input 1), L2-29 (Logical OR module B input 2), L2-30 (Logical OR module B input 3), and L2-31 (Logical OR module B input 4) is set to 1, the value is U3-13 (Output logical OR module B output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-32	Input 1 of logical	2333	Refer to	0	Unsigned	1	Real time	General	Effective

	OR module C		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 data of logical OR module C. Note: As long as one of L2-32 (Logical OR module C input 1), L2-33 (Logical OR module C input 2), L2-34 (Logical OR module C input 3), and L2-35 (Logical OR module C input 4) is set to 1, the value is U3-14 (Output logical OR module C output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-33	Input 2 of logical OR module C	2334	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 data of logical OR module C. Note: As long as one of L2-32 (Logical OR module C input 1), L2-33 (Logical OR module C input 2), L2-34 (Logical OR module C input 3), and L2-35 (Logical OR module C input 4) is set to 1, the value is U3-14 (Output logical OR module C output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-34	Input 3 of logical OR module C	2335	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 data of logical OR module C. Note: As long as one of L2-32 (Logical OR module C input 1), L2-33 (Logical OR module C input 2), L2-34 (Logical OR module C input 3), and L2-35 (Logical OR module C input 4) is set to 1, the value is U3-14 (Output logical OR module C output) is 1.								

	Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-35	Input 4 of logical OR module C	2336	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 data of logical OR module C. Note: As long as one of L2-32 (Logical OR module C input 1), L2-33 (Logical OR module C input 2), L2-34 (Logical OR module C input 3), and L2-35 (Logical OR module C input 4) is set to 1, the value is U3-14 (Output logical OR module C output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-36	Input 1 of logical OR module D	2337	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 data of logical OR module D. Note: As long as one of L2-36 (Logical OR module D input 1), L2-37 (Logical OR module D input 2), L2-38 (Logical OR module D input 3), and L2-39 (Logical OR module D input 4) is set to 1, the value is U3-15 (Output logical OR module D output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-37	Input 2 of logical OR module D	2338	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 data of logical OR module D.								

	Note: As long as one of L2-36 (Logical OR module D input 1), L2-37 (Logical OR module D input 2), L2-38 (Logical OR module D input 3), and L2-39 (Logical OR module D input 4) is set to 1, the value is U3-15 (Output logical OR module D output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-38	Input 3 of logical OR module D	2339	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 data of logical OR module D. Note: As long as one of L2-36 (Logical OR module D input 1), L2-37 (Logical OR module D input 2), L2-38 (Logical OR module D input 3), and L2-39 (Logical OR module D input 4) is set to 1, the value is U3-15 (Output logical OR module D output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-39	Input 4 of logical OR module D	2340	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 data of logical OR module D. Note: As long as one of L2-36 (Logical OR module D input 1), L2-37 (Logical OR module D input 2), L2-38 (Logical OR module D input 3), and L2-39 (Logical OR module D input 4) is set to 1, the value is U3-15 (Output logical OR module D output) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-40	Function selection for logical XOR/XNOR module A	2591	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：XOR 1：XNOR
	Description： Defines the function for logical XOR/XNOR module A. Value description: 0: XOR - Logical XOR is active. When L2-41 [Logical XOR\XNOR module A input 1] is different from L2-42 [Logical XOR\XNOR module A input 2], its output U3-16 [Logical XOR\XNOR module A output] is 1. Otherwise it is 0. 1: XNOR - Logical XNOR is active. When L2-41 [Logical XOR\XNOR module A input 1] and L2-42 [Logical XOR\XNOR module A input 2] are the same, the output U3-16 [Logical XOR\XNOR module A output] is 1. Otherwise it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-41	Input 1 of logical XOR/XNOR module A	2595	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 1 data of logical XOR/XNOR module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-42	Input 2 of logical XOR/XNOR module A	2596	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 2 data of logical XOR/XNOR module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-43	Function selection for logical XOR/XNOR module B	2592	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：XOR 1：XNOR								
	Description： Used to select the function for logical XOR/XNOR module B.								

	Value description: 0: XOR - Logical XOR is active. When L2-44 [Logical XOR\XNOR module B input 1] is different from L2-45 [Logical XOR\XNOR module B input 2], its output U3-17 [Logical XOR\XNOR module B output] is 1. Otherwise it is 0. 1: XNOR - Logical XNOR is active. When L2-44 [Logical XOR\XNOR module B input 1] and L2-45 [Logical XOR\XNOR module B input 2] are the same, the output U3-17 [Logical XOR\XNOR module B output] is 1. Otherwise it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-44	Input 1 of logical XOR/XNOR module B	2597	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input 1 data of logical XOR/XNOR module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-45	Input 2 of logical XOR/XNOR module B	2598	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input 2 data of logical XOR/XNOR module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-46	Function selection for logical XOR/XNOR module C	2593	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: XOR 1: XNOR								
	Description: Used to select the function for logical XOR/XNOR module C. Value description: 0: XOR - Logical XOR is active. When L2-47 [Logical XOR\XNOR module C input 1] is different from L2-48 [Logical XOR\XNOR module C input 2], its output U3-18 [Logical XOR\XNOR module C output] is 1. Otherwise it is 0.								

	1: XNOR - Logical XNOR is active. When L2-47 [Logical XOR\XNOR module C input 1] and L2-48 [Logical XOR\XNOR module C input 2] are the same, the output U3-18 [Logical XOR\XNOR module C output] is 1. Otherwise it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-47	Input 1 of logical XOR/XNOR module C	2599	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 data of logical XOR/XNOR module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-48	Input 2 of logical XOR/XNOR module C	2600	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 data of logical XOR/XNOR module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-49	Function selection for logical XOR/XNOR module D	2594	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: XOR 1: XNOR								
	Description: Used to select the function for logical XOR/XNOR module D. Value description: 0: XOR - Logical XOR is active. When L2-50 [Logical XOR\XNOR module D input 1] is different from L2-51 [Logical XOR\XNOR module D input 2], its output U3-19 [Logical XOR\XNOR module D output] is 1. Otherwise it is 0. 1: XNOR - Logical XNOR is active. When L2-50 [Logical XOR\XNOR module D input 1] is the same as L2-51 [Logical XOR\XNOR module D input 2], its output U3-19 [Logical XOR\XNOR module D output] is 1. Otherwise it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L2-50	Input 1 of logical XOR/XNOR module D	2601	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 data of logical XOR/XNOR module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-51	Input 2 of logical XOR/XNOR module D	2602	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 data of logical XOR/XNOR module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-60	Function selection for logical AND/OR module A	3347	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: AND 2: OR								
	Description: Used to select the function for logical AND/OR module A. Value description: 0: Disable The output U4-92 [Output of logical AND/OR module A] is 0. 1: Logical AND - When L2-61 (Logical AND/OR module A input 1), L2-62 (Logical AND/OR module A input 2), and L2-63 (Logical AND/OR module A input 3) are all 1, U4-92 (Logical AND/OR module A output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-61 (Logical AND/OR module A input 1), L2-62 (Logical AND/OR module A input 2), and L2-63 (Logical AND/OR module A input 3) is 1, U4-92 (Logical AND/OR module A output) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-61	Input 1 of logical AND/OR module A	3355	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 1 data of logical AND/OR module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-62	Input 2 of logical AND/OR module A	3363	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 2 data of logical AND/OR module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-63	Input 3 of logical AND/OR module A	3371	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 3 data of logical AND/OR module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-64	Function selection for logical AND/OR module B	3348	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: AND 2: OR								
	Description: Used to select the function for logical AND/OR module B. Value description: 0: Disable The output U4-93 [Output of logical AND/OR module B] is 0.								

	1: Logical AND - When L2-65 (Logical AND/OR module B input 1), L2-66 (Logical AND/OR module B input 2), and L2-67 (Logical AND/OR module B input 3) are all 1, U4-93 (Logical AND/OR module B output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-65 (Logical AND/OR module B input 1), L2-66 (Logical AND/OR module B input 2), and L2-67 (Logical AND/OR module B input 3) is 1, U4-93 (Logical AND/OR module B output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-65	Input 1 of logical AND/OR module B	3356	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 1 data of logical AND/OR module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-66	Input 2 of logical AND/OR module B	3364	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 2 data of logical AND/OR module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-67	Input 3 of logical AND/OR module B	3372	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 3 data of logical AND/OR module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-68	Function selection for logical AND/OR module C	3349	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Disabled 1：AND 2：OR
	Description： Used to set the function of logical AND/OR module C. Value description: 0: Disable The output U4-94 [Output of logical AND/OR module C] is 0. 1: Logical AND - When L2-69 (Logical AND/OR module C input 1), L2-70 (Logical AND/OR module C input 2), and L2-71 (Logical AND/OR module C input 3) are all 1, U4-94 (Logical AND/OR module C output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-69 [Logical AND/OR module C input 1], L2-70 [Logical AND/OR module C input 2], and L2-71 [Logical AND/OR module C input 3] is 1, U4-94 [Logical AND/OR module C output] is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-69	Input 1 of logical AND/OR module C	3357	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Logic 0 Others：B connector								
	Description： Defines input 1 data of logical AND/OR module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-70	Input 2 of logical AND/OR module C	3365	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Logic 0 Others：B connector								
	Description： Defines input 2 data of logical AND/OR module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-71	Input 3 of logical AND/OR module C	3373	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Logic 0 Others：B connector								
	Description：								

	Defines input 3 data of logical AND/OR module C.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-72	Function selection for logical AND/OR module D	3350	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: AND 2: OR								
	Description: Used to set the function of logical AND/OR module D. Value description: 0: Disable Then the output U4-95 [Output of logical AND/OR module D] is 0. 1: Logical AND - When L2-73 (Logical AND/OR module D input 1), L2-74 (Logical AND/OR module D input 2), and L2-75 (Logical AND/OR module D input 3) are all 1, U4-95 (Logical AND/OR module D output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-73 [Logical AND/OR module D input 1], L2-74 [Logical AND/OR module D input 2], and L2-75 [Logical AND/OR module D input 3] is 1, U4-95 [Logical AND/OR module D output] is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-73	Input 1 of logical AND/OR module D	3358	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 1 of logical AND/OR module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-74	Input 2 of logical AND/OR module D	3366	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 2 of logical AND/OR module D.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L2-75	Input 3 of logical AND/OR module D	3374	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 3 of logical AND/OR module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-76	Function selection for logical AND/OR module E	3351	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: AND 2: OR								
	Description: Used to set the function of logical AND/OR module E. Value description: 0: Disable The output U4-96 [Output of logical AND/OR module E] is 0. 1: Logical AND - When L2-77 (Logical AND/OR module E input 1), L2-78 (Logical AND/OR module E input 2), and L2-79 (Logical AND/OR module E input 3) are all 1, U4-96 (Logical AND/OR module E output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-77 [Logical AND/OR module E input 1], L2-78 [Logical AND/OR module E input 2], and L2-79 [Logical AND/OR module E input 3] is 1, U4-96 [Logical AND/OR module E output] is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-77	Input 1 of logical AND/OR module E	3359	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 1 data of logical AND/OR module E.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-78	Input 2 of logical	3367	Refer to	0	Unsigned	1	Real time	General	Effective

	AND/OR module E		"Value"		16 bit		changes	user	in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 2 data of logical AND/OR module E.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-79	Input 3 of logical AND/OR module E	3375	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 3 data of logical AND/OR module E.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-80	Function selection for logical AND/OR module F	3352	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: AND 2: OR								
	Description: Used to set the function of logical AND/OR module F. Value description: 0: Disable The output U4-97 [Output of logical AND/OR module F] is 0. 1: Logical AND - When L2-81 (Logical AND/OR module F input 1), L2-82 (Logical AND/OR module F input 2), and L2-83 (Logical AND/OR module F input 3) are all 1, U4-97 (Logical AND/OR module F output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-81 (Logical AND/OR module F input 1), L2-82 (Logical AND/OR module F input 2), and L2-83 (Logical AND/OR module F input 3) is 1, U4-97 (Logical AND/OR module F output) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-81	Input 1 of logical AND/OR module F	3360	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Logic 0 Others: B connector
	Description: Defines input 1 data of logical AND/OR module F.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-82	Input 2 of logical AND/OR module F	3368	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 2 data of logical AND/OR module F.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-83	Input 3 of logical AND/OR module F	3376	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 3 data of logical AND/OR module F.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-84	Function selection for logical AND/OR module G	3353	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: AND 2: OR								
	Description: Used to set the function of logical AND/OR module G. Value description: 0: Disable The output U4-98 [Output of logical AND/OR module G] is 0. 1: Logical AND - When L2-85 (Logical AND/OR module G input 1), L2-86 (Logical AND/OR module G input 2), and L2-87								

	(Logical AND/OR module G input 3) are all 1, U4-98 (Logical AND/OR module G output) is 1. Otherwise, it is 0. 2: Logical OR - If one of L2-85 (Logical AND/OR module G input 1), L2-86 (Logical AND/OR module G input 2), and L2-87 (Logical AND/OR module G input 3) is 1, U4-98 (Logical AND/OR module G output) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-85	Input 1 of logical AND/OR module G	3361	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 1 data of logical AND/OR module G.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-86	Input 2 of logical AND/OR module G	3369	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 2 data of logical AND/OR module G.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-87	Input 3 of logical AND/OR module G	3377	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 Others: B connector								
	Description: Defines input 3 data of logical AND/OR module G.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-88	Function selection for logical AND/OR module H	3354	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled								

	1：AND 2：OR
	Description： Used to set the function of logical AND/OR module H. Value description: 0: Disable The output U4-99 [Output of logical AND/OR module H] is 0. 1: Logical AND - When L2-89 (Logical AND/OR module H input 1), L2-90 (Logical AND/OR module H input 2), and L2-91 (Logical AND/OR module H input 3) are all 1, U4-99 (Logical AND/OR module H output) is 1. Otherwise, it is 0. 2: Logical OR - As long as one of L2-89 [Logical AND/OR module H input 1], L2-90 [Logical AND/OR module H input 2], and L2-91 [Logical AND/OR module H input 3] is 1, U4-99 [Logical AND/OR module H output] is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-89	Input 1 of logical AND/OR module H	3362	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Logic 0 Others：B connector								
	Description： Defines input 1 data of logical AND/OR module H.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-90	Input 2 of logical AND/OR module H	3370	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Logic 0 Others：B connector								
	Description： Defines input 2 data of logical AND/OR module H.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L2-91	Input 3 of logical AND/OR module H	3378	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Logic 0 Others：B connector								
	Description： Defines input 3 data of logical AND/OR module H.								

L3 Word-to-Double Word conversion function

<table>
<tr><th>Param</th><th>Name</th><th>Communication address</th><th>Range</th><th>Default</th><th>Data type</th><th>Accuracy</th><th>Change mode</th><th>User authority</th><th>Effective mode</th></tr>
<tr><td rowspan="3">L3-00</td><td>Base value coefficient for word-to-double word</td><td>4224</td><td>Refer to "Value"</td><td>0x0</td><td>Unsigned 16 bit</td><td>1</td><td>Real time changes</td><td>General user</td><td>Effective in real time</td></tr>
<tr><td colspan="8">Value：
<table>
<tr><th>Bit</th><th>Name</th><th>Value</th></tr>
<tr><td>bit0</td><td>Word-to-double word 1</td><td>0: x 65536
1: x 1</td></tr>
<tr><td>bit1</td><td>Word-to-double word 2</td><td>0: x 65536
1: x 1</td></tr>
<tr><td>bit2</td><td>Word-to-double word 3</td><td>0: x 65536
1: x 1</td></tr>
<tr><td>bit3</td><td>Word-to-double word 4</td><td>0: x 65536
1: x 1</td></tr>
<tr><td>bit4</td><td>Word-to-double word 5</td><td>0: x 65536
1: x 1</td></tr>
</table></td></tr>
<tr><td colspan="8">Description：
Defines the base value coefficient for word-to-double word conversion.

Note:
The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U9-47 to U9-49 (word-to-double word 1 to 3).
bit0 to bit4 correspond to word-to-double words 1 to 5.</td></tr>
<tr><th>Param</th><th>Name</th><th>Communication address</th><th>Range</th><th>Default</th><th>Data type</th><th>Accuracy</th><th>Change mode</th><th>User authority</th><th>Effective mode</th></tr>
<tr><td rowspan="2">L3-01</td><td>High word of word-to-double word 1</td><td>2352</td><td>Refer to "Value"</td><td>0</td><td>Unsigned 16 bit</td><td>1</td><td>Real time changes</td><td>General user</td><td>Effective in real time</td></tr>
<tr><td colspan="8">Value：
0： Invalid</td></tr>
</table>

	Others： K connector
	Description： Defines the high word for word-to-double word 1. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-47 (Word-to-double word module 1 output). When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-02	Low word of word-to-double word 1	2353	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the low word of word-to-double word 1. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-47 (Word-to-double word module 1 output). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-03	Base value of word-to-double word 1	2354	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value of word-to-double word 1. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and								

	multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-47 (Word-to-double word module 1 output).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-04	High word of word-to-double word 2	2355	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high word for word-to-double word 2. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-48 (Word-to-double word module 2 output). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-05	LOWORD of word-to-double word 2	2356	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low word of word-to-double word 2. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-48 (Word-to-double word module 2 output). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-06	Base value of word-to-double word 2	2357	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the base value of word-to-double word 1. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-48 (Word-to-double word module 2 output).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-07	High word of word-to-double word 3	2358	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high word for word-to-double word 3. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-49 (Word-to-double word module 3 output). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-08	Low word of word-to-double word 3	2359	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0： Invalid Others： K connector
	Description： Defines the low word of word-to-double word 3. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-49 (Word-to-double word module 3 output). When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-09	Base value of word-to-double word 3	2360	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value of word-to-double word 3. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. The output can be viewed through U9-49 (Word-to-double word module 3 output).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-10	High word of word-to-double word 4	4229	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the high word for word-to-double word 4. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and								

	low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-11	LOWORD of word-to-double word 4	4230	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low word of word-to-double word 4. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-12	Base value of word-to-double word 4	4231	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the base value of word-to-double word 4. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-13	High word of	4232	Refer to	0	Unsigned	1	Real time	General	Effective

	word-to-double word 5		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high word for word-to-double word 5. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-14	LOWORD of word-to-double word 5	4233	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low word of word-to-double word 5. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter. When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-15	Base value of word-to-double word 5	4234	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

Defines the base value of word-to-double word 5.

Note:
The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. The double word is then being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-25	Base value coefficient for double word-to-word	4225	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Double word-to-word 1	0: x 65536 1: x 1
bit1	Double word-to-word 2	0: x 65536 1: x 1
bit2	Double word-to-word 3	0: x 65536 1: x 1
bit3	Double word-to-word 4	0: x 65536 1: x 1
bit4	Double word-to-word 5	0: x 65536 1: x 1

Description:
Defines the base value coefficient for double word-to word conversion.

Note:
1. After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The high 16 bits and low 16 bits are finally outputted to U5-76 to U5-85.
2. bit0 to bit4 correspond to double word-to-word 1 to 5.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-26	Selection of double word-to-word conversion	2361	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	1								time
	Value: 0: Invalid Others: K connector								
	Description: Defines the double word-to-word 1 data source. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The output can be monitored through U5-76 (High word of double word-to-word 1 output) and U5-77 (Low word of double word-to-word 1 output).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-27	Base value of double word-to-word 1	2362	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the base value for double word-to-word 1 conversion. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-28	Selection of double word-to-word 2	2363	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the double word-to-word 2 data source. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the								

	output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The output can be monitored through U5-78 (High word of double word-to-word 2 output) and U5-79 (Low word of double word-to-word 2 output).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-29	Base value of double word-to-word conversion 2	2364	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the base value for double word-to-word 2 conversion. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-30	Selection of double word-to-word conversion 3	2365	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the double word-to-word 3 data source. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The output can be monitored through U5-80 (High word of double word-to-word 3 output) and U5-81 (Low word of double word-to-word 3 output).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-31	Base value of double word-to-	2366	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	word conversion 3								time
	Description: Defines the base value for double word-to-word 3 conversion. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-32	Selection of double word-to-word conversion 4	4235	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the double word-to-word 4 data source. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The output can be monitored through U5-82 (High word of double word-to-word 4 output) and U5-83 (Low word of double word-to-word 4 output).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-33	Base value of double word-to-word conversion 4	4236	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the base value for double word-to-word 4 conversion. Note: After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being								

	divided by the base value coefficient set by this parameter.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-34	Selection of double word-to-word conversion 5	4237	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid

Others: K connector

Description:

Defines the double word-to-word 5 data source.

Note:

After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The output can be monitored through U5-84 (High word of double word-to-word 5 output) and U5-85 (Low word of double word-to-word 5 output).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L3-35	Base value of double word-to-word conversion 5	4238	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:

Defines the base value for double word-to-word 5 conversion.

Note:

After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter.

L4 Process PID

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-00	PID function	2367	Refer to	0	Unsigned	1	Real time	General	Effective

	activation signal		"Value"		16 bit		changes	user	in real time
	Value: 0: Inactive 1: Active 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable PID function. Note: L4-00 is used to enable PID function and L4-01 is used to enable PID operation. When both of them are set to high level, the PID function is activated. L4-03 is used to select the execution cycle of the PID controller. U9-60 to U9-66 are PID module-related monitoring connectors. They corresponds to the input deviation before PID additional deviation, input deviation after additional deviation, proportional component, integral component, derivative component, unlimited PID output, and limited PID output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-01	PID calculation enable signal	2368	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled Others: B connector								
	Description: Used to set whether PID operation is enabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-02	PID action direction	2369	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Used to set the PID action direction. Note: For inverse characteristic loads, set L4-02 to 1 to make the input being positive and decrease the PID output.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L4-03	PID calculation cycle coefficient	2392	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 1 x 2 ms 2: 2 x 2 ms 3: 3 x 2 ms 4: 4 x 2 ms 5: 5 x 2 ms 6: 6 x 2 ms 7: 7 x 2 ms 8: 8 x 2 ms 9: 9 x 2 ms 10: 10 x 2 ms								
	Description: Defines the PID calculation cycle coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-04	PID reference source	2370	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: L4.05 1: Multi-reference value 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference value 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the PID reference source. Note: The target and actual values of the controlled variable are selected through the PID reference source (L4-04) and PID feedback source (L4-08) to be used as the controller reference and feedback source. The filter time of the reference and feedback can be set by PID reference filter time (L4-07) and PID feedback filter time (L4-09). The input deviation PID input deviation (before additional deviation) (U9-60) superimposed with PID deviation additional reference (L4-10) is used as the final PID input deviation (after additional deviation) (U9-61). When L4-06 (PID reference freeze enable) is active, the reference remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-05	PID reference	2371	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: If L4-04 [PID reference source] is set to 0: L04.05, the PID value is set through this parameter.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-06	PID reference	2372	Refer to	0	Unsigned	1	Real time	General	Effective

	freeze enable		"Value"		16 bit		changes	user	in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to freeze PID reference. Note: When L4-06 (PID reference freeze enable) is active, the reference remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-07	PID reference filter time	2373	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the PID reference filter time. Note: The filter time of the reference and feedback can be set by PID reference filter time (L4-07) and PID feedback filter time (L4-09).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-08	PID feedback source	2374	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the PID feedback source. Note: The actual value of the controlled variable is selected through the PID feedback source (L4-08) as the feedback source of the controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L4-09	PID feedback filter time	2375	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the PID feedback filter time. Note: The filter time of the reference and feedback can be set by PID reference filter time (L4-07) and PID feedback filter time (L4-09).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-10	Additional reference of PID deviation	2376	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the additional reference of PID deviation. Note: The input deviation PID input deviation (before additional deviation) (U9-60) superimposed with PID deviation additional reference (L4-10) is used as the final PID input deviation (after additional deviation) (U9-61).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-11	Proportional gain Kp	2377	0.00-125.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the proportional gain KP of the PID. Note: When the input deviation is outside the set dead zone, the PID controller starts working. When the controller input is not 0, the control variable increases or decreases until the output limit is reached. Adjust the proportional gain Kp and integral time Ti to ensure dynamic responsiveness and steady state accuracy of PID output. The PID proportion, integral, and derivative components can be monitored through connectors U9-62 to U9-64.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-12	Proportional gain	2378	Refer to	0	Unsigned	1	Real time	General	Effective

	coefficient		"Value"		16 bit		changes	user	in real time
	Value: 0: 0 1: Multi-reference value 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference value 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the proportional gain coefficient. Note: The effective proportional gain is L4-11 x L4-12.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-13	Integral time Ti	2379	0.01-100.00	2.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the integral time Ti. Note: When the input deviation is outside the set dead zone, the PID controller starts working. When the controller input is not 0, the control variable increases or decreases until the output limit is reached. Adjust the proportional gain Kp and integral time Ti to ensure dynamic responsiveness and steady state accuracy of PID output. The PID proportion, integral, and derivative components can be monitored through connectors U9-62 to U9-64.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-14	Integral time coefficient	2380	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 100% 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the integral time coefficient. Note: The effective integral time is L4-13 x L4-14.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-15	Derivative time Td1	2381	0-10	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the derivative time Td1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-16	Derivative time coefficient	2382	0-0	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the derivative time coefficient. Note: The effective derivative time is L4-15 x L4-16.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-17	Initial integral value of PID output	2427	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the initial integral value of PID output. Value description: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A								

	10: Process data 2 of bus adapter B Others: K connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-18	Additional reference of PID output	2383	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the additional reference of PID output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-19	PID integral component enabled forcibly	2384	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: 1 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable PID integral component forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-20	Forced value of PID integral component	2385	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the forced value source of PID integral component.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L4-21	PID output limit	2386	0-600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the PID output limit. Note: The PID output is limited by setting the upper/lower limit and the up/down time, so that the controller output is within the controllable range. The upper limit of the PID output is the lower value of L4-21 and L4-22. The lower limit of the output is the higher value of the negative value of L4-21 and L4-23. L4-24 indicates the time for PID output to increase or decrease from 0 to the upper and lower limits of the output. The PID output before the limit can be viewed through the PID output (before the limit) (U9-65). The PID output after the limit can be viewed through the PID output (after the limit) (U9-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-22	Source of PID output upper limit	2387	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 100% 1: Multi-reference 1 2: AI1 3: AI2 4: HDI1 5: HDI2 6: Multi-reference 7: Motorized potentiometer 8: Reserved 9: Process data 2 of bus adapter A 10: Process data 2 of bus adapter B Others: K connector								
	Description: Defines the source of PID output upper limit. Note: The PID output is limited by setting the upper/lower limit and the up/down time, so that the controller output is within the controllable range. The upper limit of the PID output is the lower value of L4-21 and L4-22. The lower limit of the output is the higher value of the negative value of L4-21 and L4-23. L4-24 indicates the time for PID output to increase or decrease from 0 to the upper and lower limits of the output. The PID output before the limit can be viewed through the PID output (before the limit) (U9-65). The PID output after the limit can be viewed through the PID output (after the limit) (U9-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-23	Source of PID output lower limit	2388	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 4: HDI1 8: Reserved								

	1：Multi-reference 1 2：AI1 3：AI2	5：HDI2 6：Multi-reference 7：Motorized potentiometer	9：Process data 2 of bus adapter A 10：Process data 2 of bus adapter B Others：K connector
	Description： Defines the source of PID output lower limit. Note: The PID output is limited by setting the upper/lower limit and the up/down time, so that the controller output is within the controllable range. The upper limit of the PID output is the lower value of L4-21 and L4-22. The lower limit of the output is the higher value of the negative value of L4-21 and L4-23. L4-24 indicates the time for PID output to increase or decrease from 0 to the upper and lower limits of the output. The PID output before the limit can be viewed through the PID output (before the limit) (U9-65). The PID output after the limit can be viewed through the PID output (after the limit) (U9-66).		

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-24	UP/Down time of PID output limit	2389	0.00-100.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the up/down time of PID output limit. Note: The PID output is limited by setting the upper/lower limit and the up/down time, so that the controller output is within the controllable range. The upper limit of the PID output is the lower value of L4-21 and L4-22. The lower limit of the output is the higher value of the negative value of L4-21 and L4-23. L4-24 indicates the time for PID output to increase or decrease from 0 to the upper and lower limits of the output. The PID output before the limit can be viewed through the PID output (before the limit) (U9-65). The PID output after the limit can be viewed through the PID output (after the limit) (U9-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-25	PID deviation dead-band enable	2390	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 1：Enabled								
	Description： Defines whether the PID deviation dead zone is enabled. Note: When the input deviation is within the set dead zone (L4-26), the PID controller outputs 0. When the input deviation is								

	outside the set dead zone, the PID controller starts working.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-26	PID deviation dead zone range	2391	0-600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the PID deviation dead zone range. Note: This parameter is active when L4-25 is enabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-27	Detection value of PID feedback loss	2393	0-100	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the detection value of PID feedback loss. Note: When the absolute value of the PID feedback remains below the PID feedback loss detection value (L4-27) for a period longer than the PID feedback loss detection time (L4-28), the PID feedback is lost and fault code F31-1 is reported, informing the user to check the sensor or wiring.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L4-28	PID feedback loss detection time	2394	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the PID feedback loss detection time. Note: When the absolute value of the PID feedback remains below the PID feedback loss detection value (L4-27) for a period longer than the PID feedback loss detection time (L4-28), the PID feedback is lost and fault code F31-1 is reported, informing the user to check the sensor or wiring.								

L5 Switch function block

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-00	Input selection	2603	Refer to	0	Unsigned	1	Real time	General	Effective

	for binary multiplexer module A		"Value"		16 bit		changes	user	in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module A. Value description: 0: Input 1 - Its output U3-20 [Output of binary multiplexer module A] is equal to L5-01 [Input 1 of binary multiplexer module A]. 1: Input 2 - Its output U3-20 [Output of binary multiplexer module A] is equal to L5-02 [Input 2 of binary multiplexer module A]. Others: B connector - Input of binary multiplexer module A is 0, and its output U3-20 [Output of binary multiplexer module A] is equal to L5-01 [Input 1 of binary multiplexer module A]. Input of binary multiplexer module A is 1, and its output U3-20 [Output of binary multiplexer module A] is equal to L5-02 [Input 2 of binary multiplexer module A].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-01	Input 1 of binary multiplexer module A	2605	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data source of input 1 of binary multiplexer module A. Note: The input of binary multiplexer module A is 0. The output of binary multiplexer module A (U3-20) is equal to the input of binary multiplexer module A (L5-01). The input of binary multiplexer module A is 1. The output of binary multiplexer module A (U3-20) is equal to input 2 of binary multiplexer module A (L5-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-02	Input 2 of binary multiplexer module A	2606	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description:								

	Defines the data source of input 2 of binary multiplexer module A. Note: The input of binary multiplexer module A is 0. The output of binary multiplexer module A (U3-20) is equal to the input of binary multiplexer module A (L5-01). The input of binary multiplexer module A is 1. The output of binary multiplexer module A (U3-20) is equal to input 2 of binary multiplexer module A (L5-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-03	Input selection for binary multiplexer module B	2604	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module B. Value description: 0: Input 1 - Its output U3-21 [Output of binary multiplexer module B] is equal to L5-04 [Input 1 of binary multiplexer module B]. 1: Input 2 - Its output U3-21 [Output of binary multiplexer module B] is equal to L5-05 [Input 2 of binary multiplexer module B]. Others: B connector - Input of binary multiplexer module B is 0, and its output U3-21 [Output of binary multiplexer module B] is equal to L5-04 [Input 1 of binary multiplexer module B]. Input of binary multiplexer module B is 1, and its output U3-21 [Output of binary multiplexer module B] is equal to L5-05 [Input 2 of binary multiplexer module B].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-04	Input 1 of binary multiplexer module B	2607	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data source of input 1 of binary multiplexer module B. Note: The input of binary multiplexer module B is 0. The output of binary multiplexer module B (U3-21) is equal to the input 1 of binary multiplexer module B (L5-04). The input of binary multiplexer module B is 1. The output of binary multiplexer module B (U3-21) is equal to input 2 of binary multiplexer module B (L5-05).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-05	Input 2 of binary multiplexer module B	2608	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data source of input 2 of binary multiplexer module B. Note: The input of binary multiplexer module B is 0. The output of binary multiplexer module B (U3-21) is equal to the input 1 of binary multiplexer module B (L5-04). The input of binary multiplexer module B is 1. The output of binary multiplexer module B (U3-21) is equal to input 2 of binary multiplexer module B (L5-05).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-06	Input selection for binary multiplexer module C	3381	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection of binary multiplexer module C. Value description: 0: Input 1 - Its output U3-97 [Output of binary multiplexer module C] is equal to L5-07 [Input 1 of binary multiplexer module C]. 1: Input 2 - Its output U3-97 [Output of binary multiplexer module C] is equal to L5-08 [Input 2 of binary multiplexer module C]. Others: B connector - Input of binary multiplexer module C is 0, and its output U3-97 [Output of binary multiplexer module C] is equal to L5-07 [Input 1 of binary multiplexer module C]. Input of binary multiplexer module C is 1, and its output U3-97 [Output of binary multiplexer module C] is equal to L5-08 [Input 2 of binary multiplexer module C].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-07	Input 1 of binary multiplexer module C	3385	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines the data source of input 1 of binary multiplexer module C. Note: The input of binary multiplexer module C is 0. The output of binary multiplexer module C (U3-97) is equal to input 1 of binary multiplexer module C (L5-07). The input of binary multiplexer module C is 1. The output of binary multiplexer module C (U3-97) is equal to input 2 of binary multiplexer module C (L5-08).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-08	Input 2 of binary multiplexer module C	3389	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines the data source of input 2 of binary multiplexer module C. Note: The input of binary multiplexer module C is 0. The output of binary multiplexer module C (U3-97) is equal to input 1 of binary multiplexer module C (L5-07). The input of binary multiplexer module C is 1. The output of binary multiplexer module C (U3-97) is equal to input 2 of binary multiplexer module C (L5-08).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-09	Input selection for binary multiplexer module D	3382	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Input 1 1：Input 2 Others：B connector								
	Description： Defines the input selection of binary multiplexer module D. Value description: 0: Input 1 - Its output U3-98 [Output of binary multiplexer module D] is equal to L5-10 [Input 1 of binary multiplexer module D]. 1: Input 2 - Its output U3-98 [Output of binary multiplexer module D] is equal to L5-11 [Input 2 of binary multiplexer module D].								

	Others: B connector - Input of binary multiplexer module D is 0. Its output U3-98 [Output of binary multiplexer module D] is equal to L5-10 [Input 1 of binary multiplexer module D]. Input of binary multiplexer module D is 1. Its output U3-98 [Output of binary multiplexer module D] is equal to L5-11 [Input 2 of binary multiplexer module D].

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-10	Input 1 of binary multiplexer module D	3386	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data source of input 1 of binary multiplexer module D. Note: The input of binary multiplexer module D is 0. The output of binary multiplexer module D (U3-98) is equal to input 1 of binary multiplexer module D (L5-10). The input of binary multiplexer module D is 1. The output of binary multiplexer module D (U3-98) is equal to input 2 of binary multiplexer module D (L5-11).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-11	Input 2 of binary multiplexer module D	3390	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data source of input 2 of binary multiplexer module D. Note: The input of binary multiplexer module D is 0. The output of binary multiplexer module D (U3-98) is equal to input 1 of binary multiplexer module D (L5-10). The input of binary multiplexer module D is 1. The output of binary multiplexer module D (U3-98) is equal to input 2 of binary multiplexer module D (L5-11).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-12	Input selection for binary multiplexer module E	3383	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2								

	Others： B connector
	Description： Defines the input selection for binary multiplexer module E. Value description: 0: Input 1 - Its output U3-99 [Output of binary multiplexer module E] is equal to L5-13 [Input 1 of binary multiplexer module E]. 1: Input 2 - Its output U3-99 [Output of binary multiplexer module E] is equal to L5-13 [Input 2 of binary multiplexer module E]. Others: B connector - Input of binary multiplexer module E is 0, and its output U3-99 [Output of binary multiplexer module E] is equal to L5-13 [Input 1 of binary multiplexer module E]. Input of binary multiplexer module E is 1. Its output U3-99 [Output of binary multiplexer module E] is equal to L5-14 [Input 2 of binary multiplexer module E].

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-13	Input 1 of binary multiplexer module E	3387	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data source of input 1 of binary multiplexer module E. Note: The input of binary multiplexer module E is 0. The output of binary multiplexer module E (U3-99) is equal to input 1 of binary multiplexer module E (L5-13). The input of binary multiplexer module E is 1. The output of binary multiplexer module E (U3-99) is equal to input 2 of binary multiplexer module E (L5-14).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-14	Input 2 of binary multiplexer module E	3391	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the data source of input 2 of binary multiplexer module E. Note: The input of binary multiplexer module E is 0. The output of binary multiplexer module E (U3-99) is equal to input 1 of binary multiplexer module E (L5-13). The input of binary multiplexer module E is 1. The output of binary multiplexer module E (U3-99) is equal to input 2 of binary multiplexer module E (L5-14).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-20	Input selection for digital multiplexer module A	2609	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module A. Value description: 0: Input 1 - Its output U9-67 [Digital multiplexer module A output] is equal to L5-21 [Digital multiplexer module A input 1]. 1: Input 2 - Its output U9-67 [Digital multiplexer module A output] is equal to L5-22 [Digital multiplexer module A input 2]. Others: B connector - Digital multiplexer module A input selection is 0, its output U9-67 [Digital multiplexer module A output] is equal to L5-21 [Digital multiplexer module A input 1], and the input selection of digital multiplexer module A is 1. Its output U9-67 [Output of digital multiplexer module A] is equal to L5-22 [Input 2 of digital multiplexer module A].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-21	Input 1 of digital multiplexer module A	2611	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data source of input 1 of digital multiplexer module A. Note: The input of the digital multiplexer module A is 0. The output of the digital multiplexer module A (U9-67) is equal to the input of digital multiplexer module A (L5-21). The input of digital multiplexer module A is 1. The output of the digital multiplexer module A (U9-67) is equal to the input 2 of the digital multiplexer module A (L5-22).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-22	Input 2 of digital multiplexer module A	2612	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description： Defines the data source of input 2 of digital multiplexer module A. Note: The input of the digital multiplexer module A is 0. The output of the digital multiplexer module A (U9-67) is equal to the input of digital multiplexer module A (L5-21). The input of digital multiplexer module A is 1. The output of the digital multiplexer module A (U9-67) is equal to the input 2 of the digital multiplexer module A (L5-22).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-23	Input selection for digital multiplexer module B	2610	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Input 1 1： Input 2 Others： B connector								
	Description： Defines the input selection for digital multiplexer module B. Value description: 0: Input 1 - Its output U9-68 [Output of digital multiplexer module B] is equal to L5-24 [Input 1 of digital multiplexer module B]. 1: Input 2 - Its output U9-68 [Output of digital multiplexer module B] is equal to L5-25 [Input 2 of digital multiplexer module B]. Others: B connector - Input of digital multiplexer module B is 0, and its output U9-68 [Output of digital multiplexer module B] is equal to L5-24 [Input 1 of digital multiplexer module B]. Input of digital multiplexer module B is 1. Its output U9-68 [Output of digital multiplexer module B] is equal to L5-25 [Input 2 of digital multiplexer module B].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-24	Input 1 of digital multiplexer module B	2613	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 1 of digital multiplexer module B. Note: The input of the digital multiplexer module B is 0. The output of the digital multiplexer module B (U9-68) is equal to the input 1 of the digital multiplexer module B (L5-24). The input of the digital multiplexer module B is 1. The output of the								

	digital multiplexer module B (U9-68) is equal to the input 2 of the digital multiplexer module B (L5-25).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-25	Input 2 of digital multiplexer module B	2614	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data source of input 2 of digital multiplexer module B. Note: The input of the digital multiplexer module B is 0. The output of the digital multiplexer module B (U9-68) is equal to the input 1 of the digital multiplexer module B (L5-24). The input of the digital multiplexer module B is 1. The output of the digital multiplexer module B (U9-68) is equal to the input 2 of the digital multiplexer module B (L5-25).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-26	Input selection for digital multiplexer module C	3393	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module C. Value description: 0: Input 1 - Its output U9-87 [Digital multiplexer module C output] is equal to L5-27 [Digital multiplexer module C input 1]. 1: Input 2 - Its output U9-88 [Digital multiplexer module C output] is equal to L5-28 [Digital multiplexer module C input 2]. Others: B connector - Digital multiplexer module C input selection is 0, and its output U9-87 [Digital multiplexer module C output] is equal to L5-27 [Digital multiplexer module C input 1]. The input selection of digital multiplexer module C is 1. The output U9-88 [Output of digital multiplexer module C] is equal to L5-28 [Input 2 of digital multiplexer module C].								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-27	Input 1 of digital multiplexer module C	3397	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the data source of input 1 of digital multiplexer module C. Note: The input of the digital multiplexer module C is 0. The output of the digital multiplexer module C (U9-87) is equal to the input of the digital multiplexer module C (L5-27). The input of the digital multiplexer module C is 1. The output of the digital multiplexer module C (U9-88) is equal to the input of the digital multiplexer module C (L5-28).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-28	Input 2 of digital multiplexer module C	3401	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the data source of input 2 of digital multiplexer module C. Note: The input of the digital multiplexer module C is 0. The output of the digital multiplexer module C (U9-87) is equal to the input of the digital multiplexer module C (L5-27). The input of the digital multiplexer module C is 1. The output of the digital multiplexer module C (U9-88) is equal to the input of the digital multiplexer module C (L5-28).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-29	Input selection for digital multiplexer module D	3394	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Input 1 1： Input 2 Others： B connector								
	Description： Defines input selection for digital multiplexer module D. Value description: 0: Input 1 - Its output U9-88 [Digital multiplexer module D output] is equal to L5-30 [Digital multiplexer module D input 1]. 1: Input 2 - Its output U9-88 [Digital multiplexer module D output] is equal to L5-31 [Digital multiplexer module D input 2]. Others: B connector - Input of digital multiplexer module D is 0, and its output U9-88 [Output of digital multiplexer module D] is equal to L5-30 [Input 1 of digital multiplexer module D]. Input of digital multiplexer module D is 1. Its output U9-88 [Output of digital multiplexer module D] is equal to L5-31 [Input 2 of digital multiplexer module D].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-30	Input 1 of digital multiplexer module D	3398	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data source of input 1 of digital multiplexer module D. Note: The input of the digital multiplexer module D is 0. The output of the digital multiplexer module D (U9-88) is equal to the input 1 of the digital multiplexer module D (L5-30). The input of the digital multiplexer module D is 1. The output of the digital multiplexer module D (U9-88) is equal to the input of the digital multiplexer module D (L5-31).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-31	Input 2 of digital multiplexer module D	3402	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data source of input 2 of digital multiplexer module D. Note: The input of the digital multiplexer module D is 0. The output of the digital multiplexer module D (U9-88) is equal to the input 1 of the digital multiplexer module D (L5-30). The input of the digital multiplexer module D is 1. The output of the digital multiplexer module D (U9-88) is equal to the input of the digital multiplexer module D (L5-31).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-32	Input selection for digital multiplexer module E	3395	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module E.								

	Value description: 0: Input 1 - Its output U9-89 [Digital multiplexer module E output] is equal to L5-33 [Digital multiplexer module E input 1]. 1: Input 2 - Its output U9-89 [Digital multiplexer module E output] is equal to L5-34 [Digital multiplexer module E input 2]. Others: B connector - Digital multiplexer module E input selection is 0, and its output U9-89 [Digital multiplexer module E output] is equal to L5-33 [Digital multiplexer module E input 1]; the input selection of digital multiplexer module E is 1. The output U9-89 [output of digital multiplexer module E] is equal to L5-34 [input of digital multiplexer module E 2].

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-33	Input 1 of digital multiplexer module E	3399	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the data source of input 1 of digital multiplexer module E. Note: The input of the digital multiplexer module E is 0. The output of the digital multiplexer module E (U9-89) is equal to the input of the digital multiplexer module E (L5-33). The input of the digital multiplexer module E is 1. The output of the digital multiplexer module E (U9-89) is equal to the input of the digital multiplexer module E (L5-34).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L5-34	Input 2 of digital multiplexer module E	3403	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the data source of input 2 of digital multiplexer module E. Note: The input of the digital multiplexer module E is 0. The output of the digital multiplexer module E (U9-89) is equal to the input of the digital multiplexer module E (L5-33). The input of the digital multiplexer module E is 1. The output of the digital multiplexer module E (U9-89) is equal to the input of the digital multiplexer module E (L5-34).								

L6 Control function block

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L6-00	Function selection for filter module A	2615	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Filtered 1: Not filtered Others: B connector								
	Description: Defines the function of filter module A. Value description: 0: Filtered - The output U9-69 [Output of filter module A] is L6-01 [Input of filter module A] as the data source, and the filtered value is L6-02 [Filter time of filter module A]. 1: Not filtered - The output U9-69 [Output of filter module A] is L6-01 [Input of filter module A]. Others: B connector - When B connector is 0, the output is equal to the filtered input value. When B connector is 1, the output is equal to the input.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-01	Input of filter module A	2619	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data input source of filter module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-02	Filter time of filter module A	2623	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the filter time of filter module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-03	Function selection for filter module B	2616	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Filtered								

	1： Not filtered Others： B connector
	Description： Defines the function of filter module B. Value description: 0: Filtered - The output U9-70 [Output of filter module B] is L6-04 [input of filter module B] as the data source and the filtered value is L6-05 [Filter time of filter module B]. 1: Not filtered - The output U9-70 [Output of filter module B] is L6-04 [Input of filter module B]. Others: B connector - When B connector is 0, the output is equal to the filtered input value. When B connector is 1, the output is equal to the input.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-04	Input of filter module B	2620	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the data input source of filter module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-05	Filter time of filter module B	2624	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the filter time of filter module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-06	Function selection for filter module C	2617	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Filtered 1： Not filtered Others： B connector								
	Description： Defines the function of filter module C. Value description: 0: Filtered - The output U9-70 [Output of filter module C] is L6-07 [Input of filter module C] as the data source and the								

	filtered value is L6-05 [Filter time of filter module B]. 1: No filter - The output U9-71 [output of filter module C] is L6-07 [input of filter module C]. Others: B connector - When B connector is 0, the output is equal to the filtered input value. When B connector is 1, the output is equal to the input.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-07	Input of filter module C	2621	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the input source of filter module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-08	Filter time of filter module C	2625	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the filter time of filter module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-09	Function selection for filter module D	2618	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Filtered 1： Not filtered Others： B connector								
	Description： Defines the function of filter module D. Value description: 0: Filtered - The output U9-72 [output of filter module D] is L6-10 [input of filter module D] as the data source, and the filtered value is L6-11 [filter time of filter module D]. 1: No filter - The output U9-72 [output of filter module D] is L6-10 [input of filter module D]. Others: B connector - When B connector is 0, the output is equal to the filtered input value. When B connector is 1, the output is equal to the input.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L6-10	Input of filter module D	2622	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of filter module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-11	Filter time of filter module D	2626	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the filter time of filter module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-12	Function selection for level-to-pulse conversion module A	2627	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Level to pulse 1: Pulse to level								
	Description: Defines the function of level-to-pulse conversion module A. Value description: 0: Level-to-pulse - The output U3-22 [Level-to-pulse conversion module A output] keeps a pulse with width defined by L6-14 [Pulse output time of level-to-pulse conversion module A] upon the rising edge of L6-13 [Level-to-pulse conversion module A input]. If L6-13 [Level-to-pulse conversion module A input] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output U3-22 [Level-to-pulse conversion module A output] is set to high level upon the rising edge of L6-13 [Level-to-pulse conversion module A input], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-13	Input of level-to-pulse conversion module A	2631	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： B connector
	Description： Defines the input of level-to-pulse conversion module A.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-14	Pulse output time of level-to-pulse conversion module A	2635	0.00-600.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the pulse output time of level-to-pulse conversion module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-15	Function selection for level-to-pulse conversion module B	2628	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Level to pulse 1： Pulse to level								
	Description： Defines the function of level-to-pulse conversion module B. Value description: 0: Level-to-pulse - The output U3-23 [Level-to-pulse conversion module B output] keeps a pulse with width defined by L6-17 [Pulse output time of level-to-pulse conversion module B] upon the rising edge of L6-16 [Input of level-to-pulse conversion module B]. If L6-16 [Input of level-to-pulse conversion module B] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output U3-23 [Level-to-pulse conversion module B output] is set to high level upon the rising edge of L6-16 [Input of level-to-pulse conversion module B], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-16	Input of level-to-pulse conversion module B	2632	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid								

	Others： B connector								
	Description： Defines the input of level-to-pulse conversion module B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-17	Pulse output time of level-to-pulse conversion module B	2636	0.00-600.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the pulse output time of level-to-pulse conversion module B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-18	Function selection for level-to-pulse conversion module C	2629	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Level to pulse 1： Pulse to level								
	Description： Defines the input of level-to-pulse conversion module C. Value description: 0: Level-to-pulse - The output U3-24 [Level-to-pulse conversion module C output] keeps a pulse with width defined by L6-17 [Pulse output time of level-to-pulse conversion module C] upon the rising edge of L6-19 [Level-to-pulse conversion module C input]. If L6-19 [Level-to-pulse conversion module C input] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output U3-24 [Level-to-pulse conversion module C output] is set to high level upon the rising edge of L6-19 [Level-to-pulse conversion module C input], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-19	Input of level-to-pulse conversion module C	2633	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description：								

	Defines the input of level-to-pulse conversion module C.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-20	Pulse output time of level-to-pulse conversion module C	2637	0.00-600.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the pulse output time of level-to-pulse conversion module C.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-21	Function selection for level-to-pulse conversion module D	2630	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Level to pulse 1: Pulse to level								
	Description: Defines the function of level-to-pulse conversion module D. Value description: 0: Level-to-pulse - The output U3-25 [Level-to-pulse conversion module D output] keeps a pulse with width defined by L6-23 [Pulse output time of level-to-pulse conversion module D] upon the rising edge of L6-22 [Level-to-pulse conversion module D input]. If L6-22 [Level-to-pulse conversion module D input] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output U3-25 [Level-to-pulse conversion module D output] is set to high level upon the rising edge of L6-22 [Level-to-pulse conversion module D input], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-22	Input of level-to-pulse conversion module D	2634	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of level-to-pulse conversion module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L6-23	Pulse output time of level-to-pulse conversion module D	2638	0.00-600.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the pulse output time of level-to-pulse conversion module D.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-24	Input of logic delay module A	2395	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of logic delay module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-25	Function selection of logic delay module A	2399	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								
	Description: Defines the function of logic delay module A. Value description: 0: Switch-on delay - Switch-on delay applies when L6-24 [Input of logic delay module A] changes from 0 to 1. 1: Switch-off delay - Switch-on delay applies when L6-24 [Input of logic delay module A] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether L6-24 [Input of logic delay module A] changes from 1 to 0 or from 0 to 1. Note: The delay time depends on the time unit of logic delay module A (L6-27) and the delay time of logic delay module A (L6-26). The switchover between level and pulse is filtered when the delay time is lower than the delay time of logic delay module A (L6-26). The output can be monitored through U3-26 (Logic delay module A output).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-26	Delay of logic	2403	0-65535	0	Unsigned	1	Real time	General	Effective

	delay module A				16 bit		changes	user	in real time
	Description: Defines the delay of logic delay module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-27	Time unit of logic delay module A	3768	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0.01s 1: 0.1s 2: 1s								
	Description: Defines the time unit of logic delay module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-28	Input of logic delay module B	2396	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of logic delay module B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-29	Function selection of logic delay module B	2400	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								
	Description: Defines the function of logic delay module B. Value description: 0: Switch-on delay - Switch-on delay applies when L6-28 [Input of logic delay module B] changes from 0 to 1. 1: Switch-off delay - Switch-on delay applies when L6-28 [Input of logic delay module B] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether L6-28 [Input of logic delay module B] changes from 1 to 0 or from								

	0 to 1. Note: The output can be monitored through U3-27 (Logic delay module B output).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-30	Delay of logic delay module B	2404	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the delay of logic delay module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-31	Time unit of logic delay module B	3769	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0.01s 1: 0.1s 2: 1s								
	Description: Defines the time unit of logic delay module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-32	Input of logic delay module C	2397	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of logic delay module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-33	Function selection of logic delay module C	2401	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								

	Description： Defines the function of logic delay module C. Value description: 0: Switch-on delay - Switch-on delay applies when L6-32 [Input of logic delay module C] changes from 0 to 1. 1: Switch-off delay - Switch-on delay applies when L6-32 [Input of logic delay module C] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether L6-32 [Input of logic delay module C] changes from 1 to 0 or from 0 to 1. Note: The output can be monitored through U3-28 (Logic delay module C output).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-34	Delay of logic delay module C	2405	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the delay of logic delay module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-35	Time unit of logic delay module C	3770	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0.01s 1： 0.1s 2： 1s								
	Description： Defines the time unit of logic delay module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-36	Input of logic delay module D	2398	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the input of logic delay module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L6-37	Function selection of logic delay module D	2402	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								
	Description: Defines the function of logic delay module D. Value description: 0: Switch-on delay - Switch-on delay applies when L6-36 [Input of logic delay module D] changes from 0 to 1. 1: Switch-off delay - Switch-on delay applies when L6-36 [Input of logic delay module D] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether L6-36 [Input of logic delay module D] changes from 1 to 0 or from 0 to 1. Note: The output can be monitored through U3-29 (Logic delay D output).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-38	Delay of logic delay module D	2406	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the delay of logic delay module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-39	Time unit of logic delay module D	3771	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0.01s 1: 0.1s 2: 1s								
	Description: Defines the time unit of logic delay module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-45	Cycle of pulse generator module 1	4203	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the cycle of pulse generator module 1. Note: When the input of pulse generator module 1 cycle (L6-45) is 0, the output of pulse generator module 1 (U4-45) is low level. If the input is not 0,the output of pulse output pulse generator module 1 (U4-45) is a square wave with duty cycle equal to that of pulse generator module 1 (L6-48).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-46	Cycle of pulse generator module 2	4204	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the cycle of pulse generator module 2. Note: When the input of pulse generator module 1 cycle (L6-58) is 0, the output of pulse generator module 2 (U4-46) is low level. If the input is not 0,the output of pulse output pulse generator module 2 (U4-46) is a square wave with duty cycle equal to that of pulse generator module 2 (L6-49).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-47	Cycle of pulse generator module 3	4205	0.0-6000.0	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the cycle of pulse generator module 3. Note: When the input of pulse generator module 3 cycle (L6-60) is 0, the output of pulse generator module 3 (U4-47) is low level. If the input is not 0,the output of pulse output pulse generator module 3 (U4-47) is a square wave with duty cycle equal to that of pulse generator module 3 (L6-50).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-48	Duty cycle of pulse generator module 1	7430	0-100	50	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the duty cycle of pulse generator module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-49	Duty cycle of pulse generator module 2	7431	0-100	50	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

	Description: Defines the duty cycle of pulse generator module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L6-50	Duty cycle of pulse generator module 3	7432	0-100	50	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the duty cycle of pulse generator module 3.								

L7 Arithmetic function block 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-00	Input of absolute value module A	2639	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of absolute value module A. Note: Output of absolute value module A (U9-73) = Absolute value of the input of absolute module A (L7-00) If the data is negative, the negative input flag of absolute value module A (U3-30) is 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-01	Input of absolute value module B	2640	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of absolute value module B. Note: Output of the output absolute value module B (U9-74) = Absolute value of the input of absolute value module B (L7-01) If the data is negative, the negative input flag of absolute value module B (U3-31) is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-02	Input of absolute value module C	2641	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of absolute value module C. Note: Output of absolute value module C (U9-75) = Absolute value of the input of absolute value module C (L7-02) If the data is negative, the negative input flag of absolute value module C (U3-32) is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-03	Input of absolute value module D	2642	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of absolute value module D. Note: Output of absolute value module D (U9-76) = Absolute value of the input of absolute value module D (L7-03) If the data is negative, the negative input flag of absolute value module D (U3-33) is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-04	Input 1 of ADD/SUBTRACT module A (ADD)	2643	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module A (ADD). Note: Output of the ADD/SUBTRACT A (U9-77) = Input 1 of the ADD/SUBTRACT module A (L7-04) + Input 2 of the ADD/SUBTRACT								

	module A (L7-05) + Input 3 of the ADD/SUBTRACT module A (L7-06) - Input 4 of the ADD/SUBTRACT module A (L7-07)								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-05	Input 2 of ADD/SUBTRACT module A (ADD)	2644	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of ADD/SUBTRACT module A (ADD). Note: Output of the ADD/SUBTRACT A (U9-77) = Input 1 of the ADD/SUBTRACT module A (L7-04) + Input 2 of the ADD/SUBTRACT module A (L7-05) + Input 3 of the ADD/SUBTRACT module A (L7-06) - Input 4 of the ADD/SUBTRACT module A (L7-07)								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-06	Input 3 of ADD/SUBTRACT module A (ADD)	2645	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 3 of ADD/SUBTRACT module A (ADD). Note: Output of the ADD/SUBTRACT A (U9-77) = Input 1 of the ADD/SUBTRACT module A (L7-04) + Input 2 of the ADD/SUBTRACT module A (L7-05) + Input 3 of the ADD/SUBTRACT module A (L7-06) - Input 4 of the ADD/SUBTRACT module A (L7-07)								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-07	Input 4 of ADD/SUBTRACT module A (SUBTRACT)	2646	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module A (SUBTRACT).								

	Note: Output of the ADD/SUBTRACT A (U9-77) = Input 1 of the ADD/SUBTRACT module A (L7-04) + Input 2 of the ADD/SUBTRACT module A (L7-05) + Input 3 of the ADD/SUBTRACT module A (L7-06) - Input 4 of the ADD/SUBTRACT module A (L7-07)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-08	Input 1 of ADD/SUBTRACT module B (ADD)	2647	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module B (ADD). Note: Output of the ADD/SUBTRACT module B (U9-78) = Input 1 of ADD/SUBTRACT module B (L7-08) + Input 2 of ADD/SUBTRACT module B (L7-09) + Input 3 of ADD/SUBTRACT module B (L7-10) - Input 4 of ADD/SUBTRACT module B (L7-11)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-09	Input 2 of ADD/SUBTRACT module B (ADD)	2648	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of ADD/SUBTRACT module B (ADD). Note: Output of the ADD/SUBTRACT module B (U9-78) = Input 1 of ADD/SUBTRACT module B (L7-08) + Input 2 of ADD/SUBTRACT module B (L7-09) + Input 3 of ADD/SUBTRACT module B (L7-10) - Input 4 of ADD/SUBTRACT module B (L7-11)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-10	Input 3 of ADD/SUBTRACT module B (ADD)	2649	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 3 of ADD/SUBTRACT module B (ADD).								

	Note: Output of the ADD/SUBTRACT module B (U9-78) = Input 1 of ADD/SUBTRACT module B (L7-08) + Input 2 of ADD/SUBTRACT module B (L7-09) + Input 3 of ADD/SUBTRACT module B (L7-10) - Input 4 of ADD/SUBTRACT module B (L7-11)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-11	Input 4 of ADD/SUBTRACT module B (SUBTRACT)	2650	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module B (SUBTRACT). Note: Output of the ADD/SUBTRACT module B (U9-78) = Input 1 of ADD/SUBTRACT module B (L7-08) + Input 2 of ADD/SUBTRACT module B (L7-09) + Input 3 of ADD/SUBTRACT module B (L7-10) - Input 4 of ADD/SUBTRACT module B (L7-11)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-12	Input 1 of ADD/SUBTRACT module C (ADD)	2651	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of ADD/SUBTRACT module C (ADD). Note: Output of the ADD/SUBTRACT module C (U9-79) = Input 1 of ADD/SUBTRACT module C (L7-12) + Input 2 of ADD/SUBTRACT module C (L7-13) + Input 3 of ADD/SUBTRACT module C (L7-14) - Input 4 of ADD/SUBTRACT module C (L7-15)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-13	Input 2 of ADD/SUBTRACT module C (ADD)	2652	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description: Defines input 2 of ADD/SUBTRACT module C (ADD). Note: Output of the ADD/SUBTRACT module C (U9-79) = Input 1 of ADD/SUBTRACT module C (L7-12) + Input 2 of ADD/SUBTRACT module C (L7-13) + Input 3 of ADD/SUBTRACT module C (L7-14) - Input 4 of ADD/SUBTRACT module C (L7-15)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-14	Input 3 of ADD/SUBTRACT module C (ADD)	2653	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 3 of ADD/SUBTRACT module C (ADD). Note: Output of the ADD/SUBTRACT module C (U9-79) = Input 1 of ADD/SUBTRACT module C (L7-12) + Input 2 of ADD/SUBTRACT module C (L7-13) + Input 3 of ADD/SUBTRACT module C (L7-14) - Input 4 of ADD/SUBTRACT module C (L7-15)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-15	Input 4 of ADD/SUBTRACT module C (SUBTRACT)	2654	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module C (SUBTRACT). Note: Output of the ADD/SUBTRACT module C (U9-79) = Input 1 of ADD/SUBTRACT module C (L7-12) + Input 2 of ADD/SUBTRACT module C (L7-13) + Input 3 of ADD/SUBTRACT module C (L7-14) - Input 4 of ADD/SUBTRACT module C (L7-15)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-16	Input 1 of ADD/SUBTRACT module D (ADD)	2655	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the input 1 of ADD/SUBTRACT module D (ADD). Note: Output of the ADD/SUBTRACT module D (U9-80) = Input 1 of ADD/SUBTRACT module D (L7-16) + Input 2 of ADD/SUBTRACT module D (L7-17) + Input 3 of ADD/SUBTRACT module D (L7-18) - Input 4 of ADD/SUBTRACT module D (L7-19)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-17	Input 2 of ADD/SUBTRACT module D (ADD)	2656	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 2 of ADD/SUBTRACT module D (ADD). Note: Output of the ADD/SUBTRACT module D (U9-80) = Input 1 of ADD/SUBTRACT module D (L7-16) + Input 2 of ADD/SUBTRACT module D (L7-17) + Input 3 of ADD/SUBTRACT module D (L7-18) - Input 4 of ADD/SUBTRACT module D (L7-19)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-18	Input 3 of ADD/SUBTRACT module D (ADD)	2657	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 3 of ADD/SUBTRACT module D (ADD). Note: Output of the ADD/SUBTRACT module D (U9-80) = Input 1 of ADD/SUBTRACT module D (L7-16) + Input 2 of ADD/SUBTRACT module D (L7-17) + Input 3 of ADD/SUBTRACT module D (L7-18) - Input 4 of ADD/SUBTRACT module D (L7-19)								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-19	Input 4 of ADD/SUBTRACT module D (SUBTRACT)	2658	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Invalid Others: K connector
	Description: Defines the input 4 of ADD/SUBTRACT module D (SUBTRACT). Note: Output of the ADD/SUBTRACT module D (U9-80) = Input 1 of ADD/SUBTRACT module D (L7-16) + Input 2 of ADD/SUBTRACT module D (L7-17) + Input 3 of ADD/SUBTRACT module D (L7-18) - Input 4 of ADD/SUBTRACT module D (L7-19)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-20	Input 1 of MULTIPLY/DIVIDE module A (MULTIPLY)	2659	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines the input 1 of MULTIPLY/DIVIDE module A (MULTIPLY). Note: Output of the MULTIPLY/DIVIDE module A (U9-81) = Input 1 of MULTIPLY/DIVIDE module A (MULTIPLY) (L7-20) x Input 2 of MULTIPLY/DIVIDE module A (MULTIPLY) (L7-21)/Input 3 of MULTIPLY/DIVIDE module A (DIVIDE) (L7-22) If the input 3 of the MULTIPLY/DIVIDE module A (DIVIDE) (L7-22) is 0, then the output of the output MULTIPLY/DIVIDE module A (U9-81) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module A (U3-34) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-21	Input 2 of MULTIPLY/DIVIDE module A (MULTIPLY)	2660	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 2 of MULTIPLY/DIVIDE module A (MULTIPLY). Note: Output of the MULTIPLY/DIVIDE module A (U9-81) = Input 1 of MULTIPLY/DIVIDE module A (MULTIPLY) (L7-20) x Input 2 of MULTIPLY/DIVIDE module A (MULTIPLY) (L7-21)/Input 3 of MULTIPLY/DIVIDE module A (DIVIDE) (L7-22) If the input 3 of the MULTIPLY/DIVIDE module A (DIVIDE) (L7-22) is 0, then the output of the output MULTIPLY/DIVIDE module A (U9-81) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module A (U3-34) is set to 1.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L7-22	Input 3 of MULTIPLY/DIVIDE module A (DIVIDE)	2661	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 3 of MULTIPLY/DIVIDE module A (DIVIDE). Note: Output of the MULTIPLY/DIVIDE module A (U9-81) = Input 1 of MULTIPLY/DIVIDE module A (MULTIPLY) (L7-20) x Input 2 of MULTIPLY/DIVIDE module A (MULTIPLY) (L7-21)/Input 3 of MULTIPLY/DIVIDE module A (DIVIDE) (L7-22) If the input 3 of the MULTIPLY/DIVIDE module A (DIVIDE) (L7-22) is 0, then the output of the output MULTIPLY/DIVIDE module A (U9-81) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module A (U3-34) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-23	Input 1 of MULTIPLY/DIVIDE module B (MULTIPLY)	2662	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines the input 1 of MULTIPLY/DIVIDE module B (MULTIPLY). Note: Output of the MULTIPLY/DIVIDE module B (U9-82) = Input 1 of MULTIPLY/DIVIDE module B (MULTIPLY) (L7-23) x Input 2 of MULTIPLY/DIVIDE module B (MULTIPLY) (L7-24)/Input 3 of MULTIPLY/DIVIDE module B (DIVIDE) (L7-25) If the input 3 of the MULTIPLY/DIVIDE module B (DIVIDE) (L7-25) is 0, then the output of the output MULTIPLY/DIVIDE module B (U9-82) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module B (U3-35) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-24	Input 2 of MULTIPLY/DIVIDE module B (MULTIPLY)	2663	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description:								

	Defines the input 2 of MULTIPLY/DIVIDE module B (MULTIPLY). Note: Output of the MULTIPLY/DIVIDE module B (U9-82) = Input 1 of MULTIPLY/DIVIDE module B (MULTIPLY) (L7-23) x Input 2 of MULTIPLY/DIVIDE module B (MULTIPLY) (L7-24)/Input 3 of MULTIPLY/DIVIDE module B (DIVIDE) (L7-25) If the input 3 of the MULTIPLY/DIVIDE module B (DIVIDE) (L7-25) is 0, then the output of the output MULTIPLY/DIVIDE module B (U9-82) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module B (U3-35) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-25	Input 3 of MULTIPLY/DIVIDE module B (DIVIDE)	2664	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 3 of MULTIPLY/DIVIDE module B (DIVIDE). Note: Output of the MULTIPLY/DIVIDE module B (U9-82) = Input 1 of MULTIPLY/DIVIDE module B (MULTIPLY) (L7-23) x Input 2 of MULTIPLY/DIVIDE module B (MULTIPLY) (L7-24)/Input 3 of MULTIPLY/DIVIDE module B (DIVIDE) (L7-25) If the input 3 of the MULTIPLY/DIVIDE module B (DIVIDE) (L7-25) is 0, then the output of the output MULTIPLY/DIVIDE module B (U9-82) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module B (U3-35) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-26	Input 1 of MULTIPLY/DIVIDE module C (MULTIPLY)	2665	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines the input 1 of MULTIPLY/DIVIDE module C (MULTIPLY). Note: Output of the MULTIPLY/DIVIDE module C (U9-83) = Input 1 of MULTIPLY/DIVIDE module C (MULTIPLY) (L7-26) x Input 2 of MULTIPLY/DIVIDE module C (MULTIPLY) (L7-27)/Input 3 of MULTIPLY/DIVIDE module C (DIVIDE) (L7-28) If the input 3 of the MULTIPLY/DIVIDE module C (DIVIDE) (L7-28) is 0, then the output of the output MULTIPLY/DIVIDE module C (U9-83) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module C (U3-36) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L7-27	Input 2 of MULTIPLY/DIVIDE module C (MULTIPLY)	2666	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 2 of MULTIPLY/DIVIDE module C (MULTIPLY). Note: Output of the MULTIPLY/DIVIDE module C (U9-83) = Input 1 of MULTIPLY/DIVIDE module C (MULTIPLY) (L7-26) x Input 2 of MULTIPLY/DIVIDE module C (MULTIPLY) (L7-27)/Input 3 of MULTIPLY/DIVIDE module C (DIVIDE) (L7-28) If the input 3 of the MULTIPLY/DIVIDE module C (DIVIDE) (L7-28) is 0, then the output of the output MULTIPLY/DIVIDE module C (U9-83) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module C (U3-36) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-28	Input 3 of MULTIPLY/DIVIDE module C (DIVIDE)	2667	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 3 of MULTIPLY/DIVIDE module C (DIVIDE). Note: Output of the MULTIPLY/DIVIDE module C (U9-83) = Input 1 of MULTIPLY/DIVIDE module C (MULTIPLY) (L7-26) x Input 2 of MULTIPLY/DIVIDE module C (MULTIPLY) (L7-27)/Input 3 of MULTIPLY/DIVIDE module C (DIVIDE) (L7-28) If the input 3 of the MULTIPLY/DIVIDE module C (DIVIDE) (L7-28) is 0, then the output of the output MULTIPLY/DIVIDE module C (U9-83) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module C (U3-36) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-29	Input 1 of MULTIPLY/DIVIDE module D (MULTIPLY)	2668	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines the input 1 of MULTIPLY/DIVIDE module D (MULTIPLY).								

	Note: Output of the output MULTIPLY/DIVIDE module D (U9-84) = Input 1 of MULTIPLY/DIVIDE module D (MULTIPLY) (L7-29) x Input 2 of MULTIPLY/DIVIDE module D (MULTIPLY) (L7-30)/Input 3 of MULTIPLY/DIVIDE module D (DIVIDE) (L7-31) If the input 3 of the MULTIPLY/DIVIDE module D (DIVIDE) (L7-28) is 0, then the output of the output MULTIPLY/DIVIDE module D (U9-84) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module D (U3-37) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-30	Input 2 of MULTIPLY/DIVIDE module D (MULTIPLY)	2669	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 2 of MULTIPLY/DIVIDE module D (MULTIPLY). Note: Output of the output MULTIPLY/DIVIDE module D (U9-84) = Input 1 of MULTIPLY/DIVIDE module D (MULTIPLY) (L7-29) x Input 2 of MULTIPLY/DIVIDE module D (MULTIPLY) (L7-30)/Input 3 of MULTIPLY/DIVIDE module D (DIVIDE) (L7-31) If the input 3 of the MULTIPLY/DIVIDE module D (DIVIDE) (L7-28) is 0, then the output of the output MULTIPLY/DIVIDE module D (U9-84) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module D (U3-37) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-31	Input 3 of MULTIPLY/DIVIDE module D (DIVIDE)	2670	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines the input 3 of MULTIPLY/DIVIDE module D (DIVIDE). Note: Output of the output MULTIPLY/DIVIDE module D (U9-84) = Input 1 of MULTIPLY/DIVIDE module D (MULTIPLY) (L7-29) x Input 2 of MULTIPLY/DIVIDE module D (MULTIPLY) (L7-30)/Input 3 of MULTIPLY/DIVIDE module D (DIVIDE) (L7-31) If the input 3 of the MULTIPLY/DIVIDE module D (DIVIDE) (L7-28) is 0, then the output of the output MULTIPLY/DIVIDE module D (U9-84) keeps the last output value, and the divide-by-zero flag of MULTIPLY/DIVIDE module D (U3-37) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-32	Function selection	2671	Refer to	0	Unsigned	1	Real time	General	Effective

	for comparison module A		"Value"		16 bit		changes	user	in real time
	Value: 0: Input 1 > Input 2 1: Input 1 < Input 2 2: Input 1 = Input 2								
	Description: Defines the function of comparison module A. Value description: 0: Input 1 > Input 2 - When L7-33 > L7-34, the value of U3-38 is 1. When the value of U3-38 is 1, it changes to 0 if L7-33 < (L7-34 - L7-35). 1: Input 1 < Input 2 - When L7-33 < L7-34, the value of U3-38 is 1. When the value of U3-38 is 1, it changes to 0 when L7-33 >(L7-34 + L7-35). 2: Input 1 = Input 2 - When (L7-34 - L7-35) < L7-33 < (L7-34 + L7-35), the value of U3-38 is 1. When the value of U3-38 is 1, it changes to 0 when L7-33 > (L7-34 + 1.5 x L7-35) or L7-33 < (L7-34 - 1.5 x L7-35). Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module A (L7-35).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-33	Input 1 of comparison module A	2673	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of comparison module A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-34	Input 2 of comparison module A	2674	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of comparison module A.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L7-35	Hysteresis input of comparison module A	2675	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the hysteresis input of comparison module A. Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module A (L7-35).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-36	Function selection for comparison module B	2672	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 > Input 2 1: Input 1 < Input 2 2: Input 1 = Input 2								
	Description: Defines the function of comparison module B. Value description: 0: Input 1 > Input 2 - When L7-37 is higher than L7-38, the output of U3-39 is 1. When the output of U3-39 is 1, the output of U3-39 returns to 0 if L7-37 < (L7-38 - L7-39). 1: Input 1 < Input 2 - When L7-37 < L7-38, the value of U3-39 is 1. When the value of U3-39 is 1, it changes to 0 when L7-37 >(L7-38 + L7-39). 2: Input 1 = Input 2 - When (L7-38 - L7-39) < L7-37 < (L7-38 + L7-39), the value of U3-39 is 1. When the value of U3-39 is 1, it changes to 0 when L7-37 > (L7-38 + 1.5 x L7-39) or L7-37 < (L7-38 - 1.5 x L7-39). Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module B (L7-39).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-37	Input 1 of comparison module B	2676	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description:								

	Defines input 1 of comparison module B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-38	Input 2 of comparison module B	2677	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of comparison module B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-39	Hysteresis input of comparison module B	2678	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the hysteresis input of comparison module B. Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module B (L7-39).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-40	Function selection for comparison module C	3417	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 > Input 2 1: Input 1 < Input 2 2: Input 1 = Input 2								
	Description: Defines the function of comparison module C. Value description: 0: Input 1 > Input 2 - When L7-41 is higher than L7-42, the output of U4-69 is 1. When the output of U4-69 is 1, the output of U4-69 returns to 0 if L7-41 < (L7-42 - L7-43). 1: Input 1 < Input 2 - When L7-41 < L7-42, the value of U4-69 is 1. When the value of U4-69 is 1, it changes to 0 when L7-41 >(L7-42 + L7-43). 2: Input 1 = Input 2 - When (L7-42 - L7-43) < L7-41 < (L7-42 + L7-43), the value of U4-69 is 1. When the value of U4-69 is 1, it changes to 0 when L7-41 > (L7-42 + 1.5 x L7-43) or L7-41 < (L7-42 - 1.5 x L7-43).								

	Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module C (L7-43).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-41	Input 1 of comparison module C	3421	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of comparison module C.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-42	Input 2 of comparison module C	3425	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of comparison module C.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-43	Hysteresis input of comparison module C	3341	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the hysteresis input of comparison module C. Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module C (L7-43).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-44	Function selection for comparison module D	3418	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 > Input 2								

	1：Input 1 < Input 2 2：Input 1 = Input 2
	Description： Defines the function of comparison module D. Value description: 0: Input 1 > Input 2 - When L7-45 is higher than L7-46, the output of U4-70 is 1. When the output of U4-70 is 1, the output of U4-70 returns to 0 if L7-45 < (L7-46 - L7-47). 1: Input 1 < Input 2 - When L7-45 < L7-46, the value of U4-70 is 1. When the value of U4-70 is 1, it changes to 0 when L7-45 >(L7-46 + L7-47). 2: Input 1 = Input 2 - When (L7-46 - L7-47) < L7-45 < (L7-46 + L7-47), the value of U4-70 is 1. When the value of U4-70 is 1, it changes to 0 when L7-45 > (L7-46 + 1.5 x L7-47) or L7-45 < (L7-46 - 1.5 x L7-47). Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module D (L7-47).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-45	Input 1 of comparison module D	3422	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：K connector								
	Description： Defines the input 1 of comparison module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-46	Input 2 of comparison module D	3426	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：K connector								
	Description： Defines the input 2 of comparison module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-47	Hysteresis input of comparison module D	3342	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description：								

	Defines the hysteresis input of comparison module D. Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module D (L7-47).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-48	Function selection for comparison module E	3419	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 > Input 2 1: Input 1 < Input 2 2: Input 1 = Input 2								
	Description: Defines the function of comparison module E. Value description: 0: Input 1 > Input 2 - When L7-49 is higher than L7-50, the output of U4-71 is 1. When the output of U4-71 is 1, the output of U4-71 returns to 0 if L7-49 < (L7-50 - L7-51). 1: Input 1 < Input 2 - When L7-49 < L7-50, the value of U4-71 is 1. When the value of U4-71 is 1, it changes to 0 when L7-49 >(L7-50 + L7-51). 2: Input 1 = Input 2 - When (L7-50 - L7-51) < L7-49 < (L7-50 + L7-51), the value of U4-71 is 1. When the value of U4-71 is 1, it changes to 0 when L7-49 > (L7-50 + 1.5 x L7-51) or L7-49 < (L7-50 - 1.5 x L7-51). Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module E (L7-51).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-49	Input 1 of comparison module E	3423	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of comparison module E.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-50	Input 2 of comparison module	3427	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	E								time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of comparison module E.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-51	Hysteresis input of comparison module E	3343	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the hysteresis input of comparison module E. Note: The threshold range of the hysteresis comparator is inputted through the hysteresis input of comparison module E (L7-51).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-60	Input of limit module A	3405	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of limit module A. Note: When the input of the limit module A (L7-60) is higher than the upper limit of the limit module A (L7-61), the output of the limit module A (U9-90) is equal to the upper limit of the limit module A (L7-61). When the input is lower than the lower limit of the limit module A (L7-62), the output of the output limit module A (U9-90) is equal to the lower limit of the limit module A (L7-62). When the input of the limit module A (L7-60) is within the upper and lower limits, the output equals to the input value. When the input is greater than the upper limit or lower than the lower limit, the limit flag of the limit module A (U4-72) is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-61	Upper limit of limit module A	3409	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Disabled Others: K connector
	Description: Defines the upper limit of limit module A.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-62	Lower limit of limit module A	3413	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the lower limit of limit module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-63	Input of limit module B	3406	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of limit module B. Note: When the input of the limit module B (L7-63) is higher than the upper limit of the limit module B (L7-64), the output of the output limit module B (U9-91) is equal to the upper limit of the limit module B (L7-64). When the input is lower than the lower limit of limit module B （L7-65）, the output of the output limit module B (U9-91) is equal to the lower limit of limit module B (L7-65). When the input of the limit module B (L7-63) is within the upper and lower limits, the output is equal to the input value. When the input is greater than the upper limit or lower than the lower limit, the limit flag of the limit flag module B (U4-73) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-64	Upper limit of limit module B	3410	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled								

	Others： K connector
	Description： Defines the upper limit of limit module B.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-65	Lower limit of limit module B	3414	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the lower limit of limit module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-66	Input of limit module C	3407	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input of limit module C. Note: When the input of the limit module C (L7-66) is higher than the upper limit of the limit module C (L7-67), the output of the output limit module C (U9-92) is equal to the upper limit of the limit module C (L7-67). When the input is lower than the lower limit of limit module C （L7-68）, the output of the output limit module C (U9-92) is equal to the lower limit of limit module C (L7-68). When the input of the limit module C (L7-66) is within the upper and lower limits, the output is equal to the input value. When the input is greater than the upper limit or lower limit, the limit flag of the limit flag module C (U4-74) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-67	Upper limit of limit module C	3411	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disabled Others： K connector								
	Description： Defines the upper limit of limit module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-68	Lower limit of limit module C	3415	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the lower limit of limit module C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-69	Input of limit module D	3408	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of limit module D. Note: When the input of the limit module D (L7-69) is higher than the upper limit of the limit module D (L7-70), the output of the output limit module D (U9-93) is equal to the upper limit of the limit module D (L7-70). When the input is lower than the lower limit of the limit module D (L7-71), the output of the limit module D (U9-93) is equal to the lower limit of the limit module D. When the input of the limit module D (L7-69) is within the upper and lower limits, the output is equal to the input value. When the input is greater than the upper limit or lower limit, the limit flag of the limit flag module D (U4-75) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-70	Upper limit of limit module D	3412	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines the upper limit of limit module D.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L7-71	Lower limit of limit	3416	Refer to	0	Unsigned	1	Real time	General	Effective

	module D		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the lower limit of limit module D.								

L8 Multi-point curve module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-00	Input of multi-point curve module A	2770	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Module disabled Others: K connector								
	Description: Defines the input of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through U9-85 (Multi-point curve module A output).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-01	Setpoint X1 of multi-point curve module A	2771	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X1 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-02	Setpoint Y1 of multi-point curve module A	2781	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y1 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-03	Setpoint X2 of multi-point curve module A	2772	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X2 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-04	Setpoint Y2 of multi-point curve module A	2782	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y2 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-05	Setpoint X3 of multi-point curve module A	2773	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X3 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-06	Setpoint Y3 of multi-point curve module A	2783	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y3 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-07	Setpoint X4 of multi-point curve module A	2774	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X4 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-08	Setpoint Y4 of multi-point curve module A	2784	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y4 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-09	Setpoint X5 of multi-point curve module A	2775	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X5 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-10	Setpoint Y5 of multi-point curve module A	2785	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y5 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-11	Setpoint X6 of multi-point curve module A	2776	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X6 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-12	Setpoint Y6 of multi-point curve module A	2786	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y6 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-13	Setpoint X7 of multi-point curve module A	2777	-600 to +600	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X7 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-14	Setpoint Y7 of multi-point curve module A	2787	-600 to +600	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y7 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-15	Setpoint X8 of multi-point curve module A	2778	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X8 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<· · ·) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-16	Setpoint Y8 of multi-point curve module A	2788	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y8 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-17	Setpoint X9 of multi-point curve module A	2779	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X9 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-18	Setpoint Y9 of multi-point curve module A	2789	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y9 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-19	Setpoint X10 of multi-point curve module A	2780	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint X10 of multi-point curve module A. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-20	Setpoint Y10 of multi-point curve module A	2790	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines setpoint Y10 of multi-point curve module A. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-01 to L8-20. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module A is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-21	Input of multi-point curve module B	2791	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Module disabled Others: K connector								
	Description: Defines the input of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through U9-86 (Multi-point curve module B output).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-22	Setpoint X1 of multi-point curve module B	2792	-600 to +6 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X1 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-23	Setpoint Y1 of multi-point curve module B	2802	-600 to +6 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y1 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-24	Setpoint X2 of multi-point curve module B	2793	-600 to +6 00	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X2 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-25	Setpoint Y2 of multi-point curve module B	2803	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y2 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-26	Setpoint X3 of multi-point curve module B	2794	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X3 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-27	Setpoint Y3 of multi-point curve module B	2804	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y3 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-28	Setpoint X4 of multi-point curve module B	2795	-600 to +6 00	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X4 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-29	Setpoint Y4 of multi-point curve module B	2805	-600 to +6 00	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y4 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-30	Setpoint X5 of multi-point curve module B	2796	-600 to +6 00	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X5 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-31	Setpoint Y5 of multi-point curve module B	2806	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y5 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-32	Setpoint X6 of multi-point curve module B	2797	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X6 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-33	Setpoint Y6 of multi-point curve module B	2807	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y6 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-34	Setpoint X7 of multi-point curve module B	2798	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X7 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-35	Setpoint Y7 of multi-point curve module B	2808	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y7 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-36	Setpoint X8 of multi-point curve module B	2799	-600 to +6 00	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X8 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-37	Setpoint Y8 of multi-point curve module B	2809	-600 to +6 00	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y8 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-38	Setpoint X9 of multi-point curve module B	2800	-600 to +6 00	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X9 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-39	Setpoint Y9 of multi-point curve module B	2810	-600 to +6 00	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y9 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L8-40	Setpoint X10 of multi-point curve module B	2801	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint X10 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L8-41	Setpoint Y10 of multi-point curve module B	2811	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the setpoint Y10 of multi-point curve module B. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through L8-22 to L8-41. The x-coordinates of the active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, the multi-point curve module B is invalid and A46-37 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.								

L9 Constant setting module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-00	Constant setpoint 1 (U7-47)	3429	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 1. Note: Defines the signed percentage with one decimal place. It can be monitored through U7-47 (Constant setpoint 1 output). 100.00% corresponds to the original value 0x1000.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-01	Constant setpoint 2 (U7-48)	3430	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 2. Note: Defines the signed percentage with one decimal place. It can be monitored through U7-48 (Constant setpoint 2 output). 100.00% corresponds to the original value 0x1000.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-02	Constant setpoint 3 (U7-49)	3431	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 3. Note: Defines the signed percentage with one decimal place. It can be monitored through U7-49 (Constant setpoint 3 output). 100.00% corresponds to the original value 0x1000.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-03	Constant setpoint 4 (U7-50)	3432	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 4. Note: Defines the signed percentage with one decimal place. It can be monitored through U7-50 (Constant setpoint 4 output). 100.00% corresponds to the original value 0x1000.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-04	Constant setpoint 5 (U7-51)	3433	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 5. Note:								

	Defines the signed percentage with one decimal place. It can be monitored through U7-51 (Constant setpoint 5 output). 100.00% corresponds to the original value 0x1000.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-05	Constant setpoint 6 (U9-51)	3434	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 6. Note: Defines the signed percentage with two decimal places. It can be monitored through U9-51 (Constant setpoint 6 output). 100.00% corresponds to the original value 0x10000000.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-06	Constant setpoint 7 (U9-52)	3435	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 7. Note: Defines the signed percentage with two decimal places. It can be monitored through U9-52 (Constant setpoint 7 output). 100.00% corresponds to the original value 0x10000000.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-07	Constant setpoint 8 (U9-53)	3436	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 8. Note: Defines the signed percentage with two decimal places. It can be monitored through U9-53 (Constant setpoint 8 output). 100.00% corresponds to the original value 0x10000000.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-08	Constant setpoint 9 (U9-54)	3437	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 9.								

	Note: Defines the signed percentage with two decimal places. It can be monitored through U9-54 (Constant setpoint 9 output). 100.00% corresponds to the original value 0x10000000.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L9-09	Constant setpoint 10 (U9-55)	3438	-300 to +300	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the constant setpoint 10. Note: Defines the signed percentage with two decimal places. It can be monitored through U9-55 (Constant setpoint 10 output). 100.00% corresponds to the original value 0x10000000.								

L10 Parameter monitoring and modification

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-00	Parameter address 1 for parameter monitoring	3067	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 1 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 1 to 4 can be used to monitor parameters of unsigned 16-bit data type. You can monitor through U7-65 (Value of parameter 1 for parameter monitoring).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-01	Parameter address 2 for parameter monitoring	3068	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 2 for parameter monitoring.								

	Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 1 to 4 can be used to monitor parameters of unsigned 16-bit data type. You can monitor through U7-66 (Value of parameter 2 for parameter monitoring).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-02	Parameter address 3 for parameter monitoring	3069	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 3 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 1 to 4 can be used to monitor parameters of unsigned 16-bit data type. You can monitor through U7-67 (Value of parameter 3 for parameter monitoring).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-03	Parameter address 4 for parameter monitoring	3070	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 4 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 1 to 4 can be used to monitor parameters of unsigned 16-bit data type. You can monitor through U7-68 (Value of parameter 4 for parameter monitoring).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-04	Parameter address 5 for parameter monitoring	3071	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 5 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored.								

	Parameter monitoring modules 5 to 10 can be used to monitor parameters of signed 16-bit data type. You can monitor through U7-69 (Value of parameter 5 for parameter monitoring).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-05	Parameter address 6 for parameter monitoring	3072	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 6 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 5 to 10 can be used to monitor parameters of signed 16-bit data type. You can monitor through U7-70 (Value of parameter 6 for parameter monitoring).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-06	Parameter address 7 for parameter monitoring	3073	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 7 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 5 to 10 can be used to monitor parameters of signed 16-bit data type. You can monitor through U7-71 (Value of parameter 7 for parameter monitoring).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-07	Parameter address 8 for parameter monitoring	3074	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the parameter address 8 for parameter monitoring. Note: This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 5 to 10 can be used to monitor parameters of signed 16-bit data type.								

	You can monitor through U7-72 (Value of parameter 8 for parameter monitoring).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-08	Parameter address 9 for parameter monitoring	3075	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines the parameter address 9 for parameter monitoring.

Note:
This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 5 to 10 can be used to monitor parameters of signed 16-bit data type.
You can monitor through U7-73 (Value of parameter 9 for parameter monitoring).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-09	Parameter address 10 for parameter monitoring	3076	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines the parameter address 10 for parameter monitoring.

Note:
This parameter is used to set the communication address of the parameters to be monitored. Parameter monitoring modules 5 to 10 can be used to monitor parameters of signed 16-bit data type.
You can monitor through U7-74 (Value of parameter 10 for parameter monitoring).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-16	Modified parameter mapping saved to EEPROM	3776	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Parameter mapping modification 1	0: Not saved 1: Saved
bit1	Parameter mapping modification 2	0: Not saved 1: Saved

bit2	Parameter mapping modification 3	0: Not saved 1: Saved
bit3	Parameter mapping modification 4	0: Not saved 1: Saved
bit4	Parameter mapping modification 5	0: Not saved 1: Saved
bit5	Parameter mapping modification 6	0: Not saved 1: Saved
bit6	Parameter mapping modification 7	0: Not saved 1: Saved
bit7	Parameter mapping modification 8	0: Not saved 1: Saved
bit8	Parameter mapping modification 9	0: Not saved 1: Saved
bit9	Parameter mapping modification 10	0: Not saved 1: Saved
bit10	Parameter mapping modification 11	0: Not saved 1: Saved
bit11	Parameter mapping modification 12	0: Not saved 1: Saved
bit12	Parameter mapping modification 13	0: Not saved 1: Saved
bit13	Parameter mapping modification 14	0: Not saved 1: Saved
bit14	Parameter mapping modification 15	0: Not saved 1: Saved
bit15	Parameter mapping modification 16	0: Not saved 1: Save

Description：

Used to set whether parameter mapping is saved to EEPROM.

Note:

Write the data from the parameter modification source to the parameter indicated by the parameter mapping address. You can set whether to save the modified parameter upon power failure through parameters. If you need to save the modified parameters to EEPROM, confirm whether mailbox data will be written frequently as frequent writing/reading operations on the EEPROM may damage the EEPROM.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-	Modification range	3825	Refer to	0x0	Unsigned	1	Real time	General	Effective

17	beyond the limit		"Value"		16 bit		changes	user	in real time

Value:

Bit	Name	Value
bit0	Parameter mapping modification 1	0: Modification invalid 1: Limited to upper or lower limit
bit1	Parameter mapping modification 2	0: Modification invalid 1: Limited to upper or lower limit
bit2	Parameter mapping modification 3	0: Modification invalid 1: Limited to upper or lower limit
bit3	Parameter mapping modification 4	0: Modification invalid 1: Limited to upper or lower limit
bit4	Parameter mapping modification 5	0: Modification invalid 1: Limited to upper or lower limit
bit5	Parameter mapping modification 6	0: Modification invalid 1: Limited to upper or lower limit
bit6	Parameter mapping modification 7	0: Modification invalid 1: Limited to upper or lower limit
bit7	Parameter mapping modification 8	0: Modification invalid 1: Limited to upper or lower limit
bit8	Parameter mapping modification 9	0: Modification invalid 1: Limited to upper or lower limit
bit9	Parameter mapping modification 10	0: Modification invalid 1: Limited to upper or lower limit
bit10	Parameter mapping modification 11	0: Modification invalid 1: Limited to upper or lower limit
bit11	Parameter mapping modification 12	0: Modification invalid 1: Limited to upper or lower limit
bit12	Parameter mapping modification 13	0: Modification invalid 1: Limited to upper or lower limit
bit13	Parameter mapping modification 14	0: Modification invalid 1: Limited to upper or lower limit
bit14	Parameter mapping modification 15	0: Modification invalid 1: Limited to upper or lower limit
bit15	Parameter mapping modification 16	0: Modification invalid 1: Limited to upper or lower limit

Description:

Defines the action when the parameter range is exceeded during modification.

	Note: Write the data from the parameter modification source to the parameter indicated by the parameter mapping address. You can set whether to execute the upper or lower limit through this parameter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-18	Parameter address 1 for modifying parameter mapping	3777	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 1 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-19	Parameter mapping modification value source 1	3793	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-20	Parameter address 2 for modifying parameter mapping	3778	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 2 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-21	Parameter mapping modification value	3794	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	source 2								
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-22	Parameter address 3 for modifying parameter mapping	3779	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 3 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-23	Parameter mapping modification value source 3	3795	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-24	Parameter address 4 for modifying parameter mapping	3780	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 4 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L10-25	Parameter mapping modification value source 4	3796	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-26	Parameter address 5 for modifying parameter mapping	3781	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 5 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-27	Parameter mapping modification value source 5	3797	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-28	Parameter address 6 for modifying parameter mapping	3782	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines parameter address 6 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-29	Parameter mapping modification value source 6	3798	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-30	Parameter address 7 for modifying parameter mapping	3783	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 7 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-31	Parameter mapping modification value source 7	3799	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-32	Parameter address 8 for modifying	3784	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	parameter mapping								time
	Description: Defines parameter address 8 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-33	Parameter mapping modification value source 8	3800	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-34	Parameter address 9 for modifying parameter mapping	3785	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 9 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-35	Parameter mapping modification value source 9	3801	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 9.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L10-36	Parameter address 10 for modifying parameter mapping	3786	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 10 for modifying parameter mapping.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-37	Parameter mapping modification value source 10	3802	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 10.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-38	Parameter address 11 for modifying parameter mapping	3787	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 11 for modifying parameter mapping.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-39	Parameter mapping modification value source 11	3803	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description: Defines parameter mapping modification value source 11.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-40	Parameter address 12 for modifying parameter mapping	3788	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 12 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-41	Parameter mapping modification value source 12	3804	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 12.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-42	Parameter address 13 for modifying parameter mapping	3789	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 13 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-43	Parameter mapping modification value source 13	3805	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： K connector
	Description： Defines parameter mapping modification value source 13.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-44	Parameter address 14 for modifying parameter mapping	3790	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines parameter address 14 for modifying parameter mapping.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-45	Parameter mapping modification value source 14	3806	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines parameter mapping modification value source 14.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-46	Parameter address 15 for modifying parameter mapping	3791	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines parameter address 15 for modifying parameter mapping.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-	Parameter	3807	Refer to	0	Unsigned	1	Real time	General	Effective

47	mapping modification value source 15		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 15.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-48	Parameter address 16 for modifying parameter mapping	3792	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines parameter address 16 for modifying parameter mapping.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L10-49	Parameter mapping modification value source 16	3808	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines parameter mapping modification value source 16.								

L11 Arithmetic function block 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-00	Calculation method of proportional	3824	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	module								time

Value:

Bit	Name	Value
bit0	Proportional module 1	0: Original value 1: Per-unit value
bit1	Proportional module 2	0: Original value 1: Per-unit value
bit2	Proportional module 3	0: Original value 1: Per-unit value
bit3	Proportional module 4	0: Original value 1: Per-unit value
bit4	Proportional module 5	0: Original value 1: Per-unit value
bit5	Proportional module 6	0: Original value 1: Per-unit value
bit6	Proportional module 7	0: Original value 1: Per-unit value
bit7	Proportional module 8	0: Original value 1: Per-unit value
bit8	Proportional module 9	0: Original value 1: Per-unit value
bit9	Proportional module 10	0: Original value 1: Per-unit value
bit10	Proportional module 11	0: Original value 1: Per-unit value
bit11	Proportional module 12	0: Original value 1: Per-unit value
bit12	Proportional module 13	0: Original value 1: Per-unit value
bit13	Proportional module 14	0: Original value 1: Per-unit value
bit14	Proportional module 15	0: Original value 1: Per-unit value
bit15	Reserved	0: Reserved 1: Reserved

Description:

Defines the calculation method of proportional module.

Value description:

	bit0: Proportional module 1 0: Original value - The original value of the input source signal is used as the data source for proportional operation. bit1 to bit14 are consistent with the options of bit0. 1: Per-unit value - The per-unit value of the input source signal is used as the data source for proportional operation. bit1: Proportional module 2 0: Original value 1: Per-unit value bit2: Proportional module 3 0: Original value 1: Per-unit value bit3: Proportional module 4 0: Original value 1: Per-unit value bit4: Proportional module 5 0: Original value 1: Per-unit value bit5: Proportional module 6 0: Original value 1: Per-unit value bit6: Proportional module 7 0: Original value 1: Per-unit value bit7: Proportional module 8 0: Original value 1: Per-unit value bit8: Proportional module 9 0: Original value 1: Per-unit value bit9: Proportional module 10 0: Original value 1: Per-unit value bit10: Proportional module 11 0: Original value 1: Per-unit value bit11: Proportional module 12 0: Original value 1: Per-unit value bit12: Proportional module 13 0: Original value 1: Per-unit value bit13: Proportional module 14 0: Original value 1: Per-unit value

	bit14: Proportional module 15 0: Original value 1: Per-unit value bit15: Reserved 0: Reserved 1: Reserved

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-01	Data type selection for value source (original value method)	4228	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Proportional module 1	0: Signed number 1: Unsigned number
bit1	Proportional module 2	0: Signed number 1: Unsigned number
bit2	Proportional module 3	0: Signed number 1: Unsigned number
bit3	Proportional module 4	0: Signed number 1: Unsigned number
bit4	Proportional module 5	0: Signed number 1: Unsigned number
bit5	Proportional module 6	0: Signed number 1: Unsigned number
bit6	Proportional module 7	0: Signed number 1: Unsigned number
bit7	Proportional module 8	0: Signed number 1: Unsigned number
bit8	Proportional module 9	0: Signed number 1: Unsigned number
bit9	Proportional module 10	0: Signed number 1: Unsigned number
bit10	Proportional module 11	0: Signed number 1: Unsigned number
bit11	Proportional module 12	0: Signed number 1: Unsigned number

bit12	Proportional module 13	0: Signed number 1: Unsigned number
bit13	Proportional module 14	0: Signed number 1: Unsigned number
bit14	Proportional module 15	0: Signed number 1: Unsigned number
bit15	Reserved	0: Reserved 1: Reserved

Description：

Defines the value source data type (original value method), which is valid when the corresponding proportional module in L11-00 is 0.

Value description:

bit0: Proportional module 1

0: Signed number - The original value of the signal source is used as the signed number for proportional operation. bit1 to bit14 are consistent with the options of bit0.

1: Unsigned number - The original value of the signal source is used as the unsigned number for proportional operation.

bit1: Proportional module 2

0: Signed number

1: Unsigned number

bit2: Proportional module 3

0: Signed number

1: Unsigned number

bit3: Proportional module 4

0: Signed number

1: Unsigned number

bit4: Proportional module 5

0: Signed number

1: Unsigned number

bit5: Proportional module 6

0: Signed number

1: Unsigned number

bit6: Proportional module 7

0: Signed number

1: Unsigned number

bit7: Proportional module 8

0: Signed number

1: Unsigned number

bit8: Proportional module 9

0: Signed number

1: Unsigned number

bit9: Proportional module 10

	0: Signed number 1: Unsigned number bit10: Proportional module 11 0: Signed number 1: Unsigned number bit11: Proportional module 12 0: Signed number 1: Unsigned number bit12: Proportional module 13 0: Signed number 1: Unsigned number bit13: Proportional module 14 0: Signed number 1: Unsigned number bit14: Proportional module 15 0: Signed number 1: Unsigned number bit15: Reserved 0: Reserved 1: Reserved

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-02	Input 1 of proportional module 1	3909	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 1. Note: Proportional module 1 output (U15-10) = Value source input 1 of proportional module 1 (L11-02) x Input 2 of proportional module 1 (MULTIPLY) (L11-03)/Input 3 of proportional module 1 (DIVIDE) (L11-04) Proportional modules 1 to 10 are used to handle word connector operations.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-03	Input 2 of proportional	3919	-32768 to	1	Signed 16 bits	1	Real time changes	General user	Effective in real

	module 1 (MULTIPLY)		+32767						time
	Description: Defines the input 2 of proportional module 1 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-04	Input 3 of proportional module 1 (DIVIDE)	3929	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 1 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-05	Value source input 1 of proportional module 2	3910	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 2. Note: Proportional module 2 output (U15-11) = Proportional module 2 value source input 1 (L11-05) x Proportional module 2 input 2 (MULTIPLY) (L11-06)/Proportional module 2 input 3 (DIVIDE) (L11-07) Proportional modules 1 to 10 are used to handle word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-06	Input 2 of proportional module 2 (MULTIPLY)	3920	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 2 (MULTIPLY).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L11-07	Input 3 of proportional module 2 (DIVIDE)	3930	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 2 (DIVIDE).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-08	Value source input 1 of proportional module 3	3911	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 3. Note: Output of proportional module 3 (U15-12) = Value source input 1 of proportional module 3 (L11-08) x Input 2 of proportional module 3 (MULTIPLY) (L11-09)/Input 3 of proportional module 3 (DIVIDE) (L11-10) Proportional modules 1 to 10 are used to handle word connector operations.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-09	Input 2 of proportional module 3 (MULTIPLY)	3921	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 3 (MULTIPLY).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-10	Input 3 of proportional module 3 (DIVIDE)	3931	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the input 3 of proportional module 3 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-11	Value source input 1 of proportional module 4	3912	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 4. Note: Output of proportional module 4 (U15-13) = Value source input 1 of proportional module 4 (L11-11) x Input 2 of proportional module 4 (MULTIPLY) (L11-12)/Input 3 of proportional module 4 (DIVIDE) (L11-13) Proportional modules 1 to 10 are used to handle word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-12	Input 2 of proportional module 4 (MULTIPLY)	3922	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 4 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-13	Input 3 of proportional module 4 (DIVIDE)	3932	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 4 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-14	Value source input 1 of proportional	3913	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	module 5								time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 5. Note: Output of proportional module 5 (U15-14) = Value source input 1 of proportional module 5 (L11-14) x Input 2 of proportional module 5 (MULTIPLY) (L11-15)/Input 3 of proportional module 5 (DIVIDE) (L11-16) Proportional modules 1 to 10 are used to handle word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-15	Input 2 of proportional module 5 (MULTIPLY)	3923	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 5 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-16	Input 3 of proportional module 5 (DIVIDE)	3933	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 5 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-17	Value source input 1 of proportional module 6	3914	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description:								

	Defines value source input 1 of proportional module 6. Note: Output of proportional module 6 (U15-15) = Value source input 1 of proportional module 6 (L11-17) x Input 2 of proportional module 6 (MULTIPLY) (L11-18)/Input 3 of proportional module 6 (DIVIDE) (L11-19) Proportional modules 1 to 10 are used to handle word connector operations.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-18	Input 2 of proportional module 6 (MULTIPLY)	3924	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 6 (MULTIPLY).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-19	Input 3 of proportional module 6 (DIVIDE)	3934	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 6 (DIVIDE).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-20	Value source input 1 of proportional module 7	3915	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 7. Note: Output of proportional module 7 (U15-16) = Value source input 1 of proportional module 7 (L11-20) x Input 2 of proportional module 7 (MULTIPLY) (L11-21)/Input 3 of proportional module 7 (DIVIDE) (L11-22) Proportional modules 1 to 10 are used to handle word connector operations.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-21	Input 2 of proportional module 7 (MULTIPLY)	3925	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 7 (MULTIPLY).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-22	Input 3 of proportional module 7 (DIVIDE)	3935	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 7 (DIVIDE).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-23	Value source input 1 of proportional module 8	3916	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 8. Note: Output of proportional module 8 (U15-17) = Value source input 1 of proportional module 8 (L11-23) x Input 2 of proportional module 8 (MULTIPLY) (L11-24)/Input 3 of proportional module 8 (DIVIDE) (L11-25) Proportional modules 1 to 10 are used to handle word connector operations.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-24	Input 2 of proportional module 8 (MULTIPLY)	3926	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time

	Description: Defines the input 2 of proportional module 8 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-25	Input 3 of proportional module 8 (DIVIDE)	3936	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 8 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-26	Value source input 1 of proportional module 9	3917	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 9. Note: Output of proportional module 9 (U15-18) = Value source input 1 of proportional module 9 (L11-26) x Input 2 of proportional module 9 (MULTIPLY) (L11-27)/Input 3 of proportional module 9 (DIVIDE) (L11-28) Proportional modules 1 to 10 are used to handle word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-27	Input 2 of proportional module 9 (MULTIPLY)	3927	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 9 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-	Input 3 of proportional	3937	1-65535	1	Unsigned	1	Real time	General	Effective in real

28	module 9 (DIVIDE)				16 bit		changes	user	time
	Description: Defines the input 3 of proportional module 9 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-29	Value source input 1 of proportional module 10	3918	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 10. Note: Output of proportional module 10 (U15-19) = Value source input 1 of proportional module 10 (L11-29) x Input 2 of proportional module 10 (MULTIPLY) (L11-30)/Input 3 of proportional module 10 (DIVIDE) (L11-31) Proportional modules 1 to 10 are used to handle word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-30	Input 2 of proportional module 10 (MULTIPLY)	3928	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 10 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-31	Input 3 of proportional module 10 (DIVIDE)	3938	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 10 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L11-32	Value source input 1 of proportional module 11	3809	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 11. Note: Output of proportional module 11 (U19-95) = Value source input 1 of proportional module 11 (L11-32) x Input 2 of proportional module 11 (MULTIPLY) (L11-33)/Input 3 of proportional module 12 (DIVIDE) (L11-34) Proportional modules 11 to 15 are used to handle double word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-33	Input 2 of proportional module 11 (MULTIPLY)	3814	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 11 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-34	Input 3 of proportional module 11 (DIVIDE)	3819	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 11 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-35	Value source input 1 of proportional module 12	3810	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description： Defines value source input 1 of proportional module 12. Note: Output of proportional module 12 (U19-96) = Value source input 1 of proportional module 12 (L11-35) x Input 2 of proportional module 12 (MULTIPLY) (L11-36)/Input 3 of proportional module 12 (DIVIDE) (L11-37) Proportional modules 11 to 15 are used to handle double word connector operations.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-36	Input 2 of proportional module 12 (MULTIPLY)	3815	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： Defines the input 2 of proportional module 12 (MULTIPLY).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-37	Input 3 of proportional module 12 (DIVIDE)	3820	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the input 3 of proportional module 12 (DIVIDE).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-38	Value source input 1 of proportional module 13	3811	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines value source input 1 of proportional module 13. Note: Output of proportional module 13 (U19-97) = Value source input 1 of proportional module 13 (L11-38) x Input 2 of proportional module 13 (MULTIPLY) (L11-39)/Input 3 of proportional module 13 (DIVIDE) (L11-40) Proportional modules 11 to 15 are used to handle double word connector operations.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-39	Input 2 of proportional module 13 (MULTIPLY)	3816	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 13 (MULTIPLY).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-40	Input 3 of proportional module 13 (DIVIDE)	3821	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 13 (DIVIDE).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-41	Value source input 1 of proportional module 14	3812	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 14. Note: Output of proportional module 14 (U19-98) = Value source input 1 of proportional module 14 (L11-41) x Input 2 of proportional module 14 (MULTIPLY) (L11-42)/Input 3 of proportional module 14 (DIVIDE) (L11-43) Proportional modules 11 to 15 are used to handle double word connector operations.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-42	Input 2 of proportional module 14 (MULTIPLY)	3817	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time

	Description: Defines the input 2 of proportional module 14 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-43	Input 3 of proportional module 14 (DIVIDE)	3822	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the input 3 of proportional module 14 (DIVIDE).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-44	Value source input 1 of proportional module 15	3813	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines value source input 1 of proportional module 15. Note: Output of proportional module 15 (U19-99) = Value source input 1 of proportional module 15 (L11-44) x Input 2 of proportional module 15 (MULTIPLY) (L11-45)/Input 3 of proportional module 15 (DIVIDE) (L11-46) Proportional modules 11 to 15 are used to handle double word connector operations.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-45	Input 2 of proportional module 15 (MULTIPLY)	3818	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines the input 2 of proportional module 15 (MULTIPLY).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L11-	Input 3 of proportional	3823	1-65535	1	Unsigned	1	Real time	General	Effective in real

46	module 15 (DIVIDE)				16 bit		changes	user	time
	Description: Defines the input 3 of proportional module 15 (DIVIDE).								

L12 Data type conversion module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-00	Input selection of data type conversion module 1	1998	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 1. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-00. Input x L12-04/L12-05 = Output. The data type of the output data is finally determined by L12-01. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 1 input (L12-03). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 1 output (U15-56). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 1 input (L12-02) and low bit of data type conversion module 1 input (L12-03) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 1 output (U15-55) and low bit of data type conversion module 1 output (U15-56). 4. When the input is double word, the high 16 bits are used.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
L12-01	Output selection of data type conversion module 1	6386	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 1. Note: The data type of the data input is determined by L12-00. Input x L12-04/L12-05 = Output. The data type of the output data is finally determined by L12-01.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-02	High bit of the input of data type conversion module 1	2014	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 1 input. Note: The data type of the data input is determined by L12-00. Input x L12-04/L12-05 = Output. The data type of the output data is finally determined by L12-01.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-03	Low bit of the input of data type conversion module 1	2030	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 1.								

	Note: The data type of the data input is determined by L12-00. Input x L12-04/L12-05 = Output. The data type of the output data is finally determined by L12-01.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-04	Input coefficient 1 of data type conversion module 1 (MULTIPLY)	1696	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time

Description: Defines input coefficient 1 of data type conversion module 1 (MULTIPLY). Note: The data type of the data input is determined by L12-00. Input x L12-04/L12-05 = Output. The data type of the output data is finally determined by L12-01.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-05	Input coefficient 2 of data type conversion module 1 (DIVIDE)	1712	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description: Defines input coefficient 2 of data type conversion module 1 (DIVIDE). Note: The data type of the data input is determined by L12-00. Input x L12-04/L12-05 = Output. The data type of the output data is finally determined by L12-01.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-06	Input selection of data type conversion module 2	1999	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer	3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type
Description: Defines the data type of the data input of data type conversion module 2. Value description: 0: Invalid - Data type conversion module is not enabled.	

	1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-06. Input x L12-10/L12-11 = Output. The data type of the output data is finally determined by L12-07. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 2 input (L12-09). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 2 output (U15-58). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 2 input (L12-08) and low bit of data type conversion module 2 input (L12-09) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 2 output (U15-57) and low bit of data type conversion module 2 output (U15-58). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-07	Output selection of data type conversion module 2	6387	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 2. Note: The data type of the data input is determined by L12-06. Input x L12-10/L12-11 = Output. The data type of the output data is finally determined by L12-07.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-08	High bit of the input of data type conversion module 2	2015	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the high bit of data type conversion module 2 input. Note: The data type of the data input is determined by L12-06. Input x L12-10/L12-11 = Output. The data type of the output data is finally determined by L12-07.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-09	Low bit of the input of data type conversion module 2	2031	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the low bit of the input of data type conversion module 2. Note: The data type of the data input is determined by L12-06. Input x L12-10/L12-11 = Output. The data type of the output data is finally determined by L12-07.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-10	Input coefficient 1 of data type conversion module 2 (MULTIPLY)	1697	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： Input coefficient 1 of data type conversion module 2 (MULTIPLY) Note: The data type of the data input is determined by L12-06. Input x L12-10/L12-11 = Output. The data type of the output data is finally determined by L12-07.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-11	Input coefficient 2 of data type conversion module 2 (DIVIDE)	1713	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 2 of data type conversion module 2 (DIVIDE).								

	Note: The data type of the data input is determined by L12-06. Input x L12-10/L12-11 = Output. The data type of the output data is finally determined by L12-07.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-12	Input selection of data type conversion module 3	2000	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Description:

Defines the data type of the data input of data type conversion module 3.

Value description:

0: Invalid - Data type conversion module is not enabled.
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Note:

1. The data type of the data input is determined by L12-12. Input x L12-16/L12-17 = Output. The data type of the output data is finally determined by L12-13.
2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 3 input (L12-15). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 3 output (U15-60).
3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 3 input (L12-14) and low bit of data type conversion module 3 input (L12-15) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 3 output (U15-59) and low bit of data type conversion module 3 output (U15-60).
4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-13	Output selection of data type conversion module	6388	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	3								
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 3. Note: The data type of the data input is determined by L12-12. Input x L12-16/L12-17 = Output. The data type of the output data is finally determined by L12-13.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-14	High bit of the input of data type conversion module 3	2016	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 3 input. Note: The data type of the data input is determined by L12-12. Input x L12-16/L12-17 = Output. The data type of the output data is finally determined by L12-13.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-15	Low bit of the input of data type conversion module 3	2032	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 3. Note: The data type of the data input is determined by L12-12. Input x L12-16/L12-17 = Output. The data type of the output data is finally determined by L12-13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-16	Input coefficient 1 of data type conversion module 3 (MULTIPLY)	1698	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 3 (MULTIPLY). Note: The data type of the data input is determined by L12-12. Input x L12-16/L12-17 = Output. The data type of the output data is finally determined by L12-13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-17	Input coefficient 2 of data type conversion module 3 (DIVIDE)	1714	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 3 (DIVIDE). Note: The data type of the data input is determined by L12-12. Input x L12-16/L12-17 = Output. The data type of the output data is finally determined by L12-13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-18	Input selection of data type conversion module 4	2001	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 4. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer								

	4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-18. Input x L12-22/L12-23 = Output. The data type of the output data is finally determined by L12-19. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 4 input (L12-21). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 4 output (U15-62). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 4 input (L12-20) and low bit of data type conversion module 4 input (L12-21) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 4 output (U15-61) and low bit of data type conversion module 4 output (U15-62). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-19	Output selection of data type conversion module 4	6389	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 4. Note: The data type of the data input is determined by L12-18. Input x L12-22/L12-23 = Output. The data type of the output data is finally determined by L12-19.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-20	High bit of the input of data type conversion module 4	2017	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 4 input.								

	Note: The data type of the data input is determined by L12-18. Input x L12-22/L12-23 = Output. The data type of the output data is finally determined by L12-19.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-21	Low bit of the input of data type conversion module 4	2033	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 4. Note: The data type of the data input is determined by L12-18. Input x L12-22/L12-23 = Output. The data type of the output data is finally determined by L12-19.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-22	Input coefficient 1 of data type conversion module 4 (MULTIPLY)	1699	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 4 (MULTIPLY). Note: The data type of the data input is determined by L12-18. Input x L12-22/L12-23 = Output. The data type of the output data is finally determined by L12-19.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-23	Input coefficient 2 of data type conversion module 4 (DIVIDE)	1715	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 4 (DIVIDE). Note: The data type of the data input is determined by L12-18. Input x L12-22/L12-23 = Output. The data type of the output data								

	is finally determined by L12-19.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-24	Input selection of data type conversion module 5	2002	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 5. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-24. Input x L12-28/L12-29 = Output. The data type of the output data is finally determined by L12-25. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 5 input (L12-27). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 5 output (U15-64). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 5 input (L12-26) and low bit of data type conversion module 5 input (L12-27) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 5 output (U15-63) and low bit of data type conversion module 5 output (U15-64). 4. When the input is double word, the high 16 bits are used.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-25	Output selection of data type conversion module 5	6390	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 4: 32-bit unsigned integer								

	2：16-bit unsigned integer 5：Single-precision floating-point type 3：32-bit signed integer								
	Description： Defines the data type selected for the output of data type conversion module 5. Note: The data type of the data input is determined by L12-24. Input x L12-28/L12-29 = Output. The data type of the output data is finally determined by L12-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-26	High bit of the input of data type conversion module 5	2018	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：K connector								
	Description： Defines the high bit of data type conversion module 5 input. Note: The data type of the data input is determined by L12-24. Input x L12-28/L12-29 = Output. The data type of the output data is finally determined by L12-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-27	Low bit of the input of data type conversion module 5	2034	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：K connector								
	Description： Defines the low bit of the input of data type conversion module 5. Note: The data type of the data input is determined by L12-24. Input x L12-28/L12-29 = Output. The data type of the output data is finally determined by L12-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-28	Input coefficient 1 of data type	1700	-32768 to	1	Signed 16 bits	1	Real time changes	General user	Effective in real

	conversion module 5 (MULTIPLY)		+32767						time
	Description: Defines input coefficient 1 of data type conversion module 5 (MULTIPLY). Note: The data type of the data input is determined by L12-24. Input x L12-28/L12-29 = Output. The data type of the output data is finally determined by L12-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-29	Input coefficient 2 of data type conversion module 5 (DIVIDE)	1716	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 5 (DIVIDE). Note: The data type of the data input is determined by L12-24. Input x L12-28/L12-29 = Output. The data type of the output data is finally determined by L12-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-30	Input selection of data type conversion module 6	2003	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 6. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note:								

	1. The data type of the data input is determined by L12-30. Input x L12-34/L12-35 = Output. The data type of the output data is finally determined by L12-31. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 6 input (L12-33). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 6 output (U15-66). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 6 input (L12-32) and low bit of data type conversion module 6 input (L12-33) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 6 output (U15-65) and low bit of data type conversion module 6 output (U15-66). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-31	Output selection of data type conversion module 6	6391	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 6. Note: The data type of the data input is determined by L12-30. Input x L12-34/L12-35 = Output. The data type of the output data is finally determined by L12-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-32	High bit of the input of data type conversion module 6	2019	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 6 input. Note: The data type of the data input is determined by L12-30. Input x L12-34/L12-35 = Output. The data type of the output data is finally determined by L12-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-33	Low bit of the input of data type conversion module 6	2035	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 6. Note: The data type of the data input is determined by L12-30. Input x L12-34/L12-35 = Output. The data type of the output data is finally determined by L12-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-34	Input coefficient 1 of data type conversion module 6 (MULTIPLY)	1701	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 6 (MULTIPLY). Note: The data type of the data input is determined by L12-30. Input x L12-34/L12-35 = Output. The data type of the output data is finally determined by L12-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-35	Input coefficient 2 of data type conversion module 6 (DIVIDE)	1717	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 6 (DIVIDE). Note: The data type of the data input is determined by L12-30. Input x L12-34/L12-35 = Output. The data type of the output data is finally determined by L12-31.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-	Input selection of	2004	Refer to	0	Unsigned	1	Real time	General	Effective

36	data type conversion module 7		"Value"		16 bit		changes	user	in real time
	Value： 0： Invalid 1： 16-bit signed integer 2： 16-bit unsigned integer 3： 32-bit signed integer 4： 32-bit unsigned integer 5： Single-precision floating-point type								
	Description： Defines the data type of the data input of data type conversion module 7. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-36. Input x L12-40/L12-41 = Output. The data type of the output data is finally determined by L12-37. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 7 input (L12-39). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 7 output (U15-68). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 7 input (L12-38) and low bit of data type conversion module 7 input (L12-39) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 7 output (U15-67) and low bit of data type conversion module 7 output (U15-68). 4. When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-37	Output selection of data type conversion module 7	6392	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： 16-bit signed integer 2： 16-bit unsigned integer 3： 32-bit signed integer 4： 32-bit unsigned integer 5： Single-precision floating-point type								
	Description： Defines the data type selected for the output of data type conversion module 7.								

	Note: The data type of the data input is determined by L12-36. Input x L12-40/L12-41 = Output. The data type of the output data is finally determined by L12-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-38	High bit of the input of data type conversion module 7	2020	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 7 input. Note: The data type of the data input is determined by L12-36. Input x L12-40/L12-41 = Output. The data type of the output data is finally determined by L12-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-39	Low bit of the input of data type conversion module 7	2036	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 7. Note: The data type of the data input is determined by L12-36. Input x L12-40/L12-41 = Output. The data type of the output data is finally determined by L12-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-40	Input coefficient 1 of data type conversion module 7 (MULTIPLY)	1702	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 7 (MULTIPLY).								

	Note: The data type of the data input is determined by L12-36. Input x L12-40/L12-41 = Output. The data type of the output data is finally determined by L12-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-41	Input coefficient 2 of data type conversion module 7 (DIVIDE)	1718	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines input coefficient 2 of data type conversion module 7 (DIVIDE).

Note:
The data type of the data input is determined by L12-36. Input x L12-40/L12-41 = Output. The data type of the output data is finally determined by L12-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-42	Input selection of data type conversion module 8	2005	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Description:
Defines the data type of the data input of data type conversion module 8.

Value description:
0: Invalid - Data type conversion module is not enabled.
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Note:
1. The data type of the data input is determined by L12-42. Input x L12-46/L12-47 = Output. The data type of the output data is finally determined by L12-43.
2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 8 input (L12-45). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of

	data type conversion module 8 output (U15-70). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 8 input (L12-44) and low bit of data type conversion module 8 input (L12-45) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 8 output (U15-69) and low bit of data type conversion module 8 output (U15-70). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-43	Output selection of data type conversion module 8	6393	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 8. Note: The data type of the data input is determined by L12-42. Input x L12-46/L12-47 = Output. The data type of the output data is finally determined by L12-43.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-44	High bit of the input of data type conversion module 8	2021	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 8 input. Note: The data type of the data input is determined by L12-42. Input x L12-46/L12-47 = Output. The data type of the output data is finally determined by L12-43.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-45	Low bit of the input of data type	2037	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	conversion module 8								time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 8. Note: The data type of the data input is determined by L12-42. Input x L12-46/L12-47 = Output. The data type of the output data is finally determined by L12-43.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-46	Input coefficient 1 of data type conversion module 8 (MULTIPLY)	1703	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 8 (MULTIPLY). Note: The data type of the data input is determined by L12-42. Input x L12-46/L12-47 = Output. The data type of the output data is finally determined by L12-43.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-47	Input coefficient 2 of data type conversion module 8 (DIVIDE)	1719	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 8 (DIVIDE). Note: The data type of the data input is determined by L12-42. Input x L12-46/L12-47 = Output. The data type of the output data is finally determined by L12-43.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-48	Input selection of data type conversion module 9	2006	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid 1：16-bit signed integer 2：16-bit unsigned integer				3：32-bit signed integer 4：32-bit unsigned integer 5：Single-precision floating-point type				
	Description： Defines the data type of the data input of data type conversion module 9. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-48. Input x L12-52/L12-53 = Output. The data type of the output data is finally determined by L12-49. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 9 input (L12-51). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 9 output (U15-72). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 9 input (L12-50) and low bit of data type conversion module 9 input (L12-51) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 9 output (U15-71) and low bit of data type conversion module 9 output (U15-72). 4. When the input is double word, the high 16 bits are used.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-49	Output selection of data type conversion module 9	6394	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：16-bit signed integer 2：16-bit unsigned integer 3：32-bit signed integer				4：32-bit unsigned integer 5：Single-precision floating-point type				
	Description： Defines the data type selected for the output of data type conversion module 9. Note: The data type of the data input is determined by L12-48. Input x L12-52/L12-53 = Output. The data type of the output data is finally determined by L12-49.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-50	High bit of the input of data type conversion module 9	2022	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 9 input. Note: The data type of the data input is determined by L12-48. Input x L12-52/L12-53 = Output. The data type of the output data is finally determined by L12-49.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-51	Low bit of the input of data type conversion module 9	2038	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 9. Note: The data type of the data input is determined by L12-48. Input x L12-52/L12-53 = Output. The data type of the output data is finally determined by L12-49.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-52	Input coefficient 1 of data type conversion module 9 (MULTIPLY)	1704	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 9 (MULTIPLY). Note: The data type of the data input is determined by L12-48. Input x L12-52/L12-53 = Output. The data type of the output data is finally determined by L12-49.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-53	Input coefficient 2 of data type conversion module 9 (DIVIDE)	1720	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 9 (DIVIDE). Note: The data type of the data input is determined by L12-48. Input x L12-52/L12-53 = Output. The data type of the output data is finally determined by L12-49.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-54	Input selection of data type conversion module 10	2007	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 10. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-54. Input x L12-58/L12-59 = Output. The data type of the output data is finally determined by L12-55. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 10 input (L12-57). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 10 output (U15-74). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 10 input (L12-56) and low bit of data type conversion module 10 input (L12-57) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 10 output (U15-73)								

	and low bit of data type conversion module 10 output (U15-74). 4. When the input is double word, the high 16 bits are used.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-55	Output selection of data type conversion module 10	6395	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 10. Note: The data type of the data input is determined by L12-54. Input x L12-58/L12-59 = Output. The data type of the output data is finally determined by L12-55.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-56	High bit of the input of data type conversion module 10	2023	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 10 input. Note: The data type of the data input is determined by L12-54. Input x L12-58/L12-59 = Output. The data type of the output data is finally determined by L12-55.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-57	Low bit of the input of data type conversion module 10	2039	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the low bit of the input of data type conversion module 10. Value description: 0: Invalid Others: K connector Note: The data type of the data input is determined by L12-54. Input x L12-58/L12-59 = Output. The data type of the output data is finally determined by L12-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-58	Input coefficient 1 of data type conversion module 10 (MULTIPLY)	1705	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 1 of data type conversion module 10 (MULTIPLY). Note: The data type of the data input is determined by L12-54. Input x L12-58/L12-59 = Output. The data type of the output data is finally determined by L12-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-59	Input coefficient 2 of data type conversion module 10 (DIVIDE)	1721	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 2 of data type conversion module 10 (DIVIDE). Note: The data type of the data input is determined by L12-54. Input x L12-58/L12-59 = Output. The data type of the output data is finally determined by L12-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-60	Input selection of data type conversion module 11	2008	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0：Invalid 1：16-bit signed integer 2：16-bit unsigned integer 3：32-bit signed integer 4：32-bit unsigned integer 5：Single-precision floating-point type
	Description： Defines the data type of the data input of data type conversion module 11. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-60. Input x L12-64/L12-65 = Output. The data type of the output data is finally determined by L12-61. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 11 input (L12-63). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 11 output (U15-76). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 11 input (L12-62) and low bit of data type conversion module 11 input (L12-63) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 11 output (U15-75) and low bit of data type conversion module 11 output (U15-76). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-61	Output selection of data type conversion module 11	6396	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：16-bit signed integer 2：16-bit unsigned integer 3：32-bit signed integer 4：32-bit unsigned integer 5：Single-precision floating-point type								
	Description： Defines the data type selected for the output of data type conversion module 11. Note: The data type of the data input is determined by L12-60. Input x L12-64/L12-65 = Output. The data type of the output data is finally determined by L12-61.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-62	High bit of the input of data type conversion module 11	2024	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the high bit of data type conversion module 11 input. Note: The data type of the data input is determined by L12-60. Input x L12-64/L12-65 = Output. The data type of the output data is finally determined by L12-61.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-63	Low bit of the input of data type conversion module 11	2040	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the low bit of the input of data type conversion module 11. Note: The data type of the data input is determined by L12-60. Input x L12-64/L12-65 = Output. The data type of the output data is finally determined by L12-61.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-64	Input coefficient 1 of data type conversion module 11 (MULTIPLY)	1706	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 1 of data type conversion module 11 (MULTIPLY). Note: The data type of the data input is determined by L12-60. Input x L12-64/L12-65 = Output. The data type of the output data is finally determined by L12-61.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-65	Input coefficient 2 of data type conversion module 11 (DIVIDE)	1722	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 11 (DIVIDE). Note: The data type of the data input is determined by L12-60. Input x L12-64/L12-65 = Output. The data type of the output data is finally determined by L12-61.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-66	Input selection of data type conversion module 12	2009	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 12. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-66. Input x L12-70/L12-71 = Output. The data type of the output data is finally determined by L12-67. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 12 input (L12-69). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 12 output (U15-78). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 12 input (L12-68) and low bit of data type conversion module 12 input (L12-69) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 12 output (U15-77)								

	and low bit of data type conversion module 12 output (U15-78). 4. When the input is double word, the high 16 bits are used.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-67	Output selection of data type conversion module 12	6397	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 12. Note: The data type of the data input is determined by L12-66. Input x L12-70/L12-71 = Output. The data type of the output data is finally determined by L12-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-68	High bit of the input of data type conversion module 12	2025	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 12 input. Note: The data type of the data input is determined by L12-66. Input x L12-70/L12-71 = Output. The data type of the output data is finally determined by L12-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-69	Low bit of the input of data type conversion module 12	2041	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the low bit of the input of data type conversion module 12. Note: The data type of the data input is determined by L12-66. Input x L12-70/L12-71 = Output. The data type of the output data is finally determined by L12-67.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-70	Input coefficient 1 of data type conversion module 12 (MULTIPLY)	1707	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 1 of data type conversion module 12 (MULTIPLY). Note: The data type of the data input is determined by L12-66. Input x L12-70/L12-71 = Output. The data type of the output data is finally determined by L12-67.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-71	Input coefficient 2 of data type conversion module 12 (DIVIDE)	1723	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 2 of data type conversion module 12 (DIVIDE). Note: The data type of the data input is determined by L12-66. Input x L12-70/L12-71 = Output. The data type of the output data is finally determined by L12-67.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-72	Input selection of data type conversion module 13	2010	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid 1： 16-bit signed integer 2： 16-bit unsigned integer 3： 32-bit signed integer 4： 32-bit unsigned integer 5： Single-precision floating-point type								
	Description：								

	Defines the data type of the data input of data type conversion module 13. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-72. Input x L12-76/L12-77 = Output. The data type of the output data is finally determined by L12-73. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 13 input (L12-75). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 13 output (U15-80). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 13 input (L12-74) and low bit of data type conversion module 13 input (L12-75) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 13 output (U15-79) and low bit of data type conversion module 13 output (U15-80). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-73	Output selection of data type conversion module 13	6398	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：16-bit signed integer 2：16-bit unsigned integer 3：32-bit signed integer 4：32-bit unsigned integer 5：Single-precision floating-point type								
	Description： Defines the data type selected for the output of data type conversion module 13. Note: The data type of the data input is determined by L12-72. Input x L12-76/L12-77 = Output. The data type of the output data is finally determined by L12-73.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-74	High bit of the input of data type conversion module	2026	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	13								time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 13 input. Note: The data type of the data input is determined by L12-72. Input x L12-76/L12-77 = Output. The data type of the output data is finally determined by L12-73.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-75	Low bit of the input of data type conversion module 13	2042	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 13. Note: The data type of the data input is determined by L12-72. Input x L12-76/L12-77 = Output. The data type of the output data is finally determined by L12-73.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-76	Input coefficient 1 of data type conversion module 13 (MULTIPLY)	1708	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 13 (MULTIPLY). Note: The data type of the data input is determined by L12-72. Input x L12-76/L12-77 = Output. The data type of the output data is finally determined by L12-73.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-77	Input coefficient 2 of data type conversion module	1724	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	13 (DIVIDE)								
	Description: Defines input coefficient 2 of data type conversion module 13 (DIVIDE). Note: The data type of the data input is determined by L12-72. Input x L12-76/L12-77 = Output. The data type of the output data is finally determined by L12-73.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-78	Input selection of data type conversion module 14	2011	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type of the data input of data type conversion module 14. Value description: 0: Invalid - Data type conversion module is not enabled. 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-78. Input x L12-82/L12-83 = Output. The data type of the output data is finally determined by L12-79. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 14 input (L12-81). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 14 output (U15-82). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 14 input (L12-80) and low bit of data type conversion module 14 input (L12-81) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 14 output (U15-81) and low bit of data type conversion module 14 output (U15-82). 4. When the input is double word, the high 16 bits are used.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L12-79	Output selection of data type conversion module 14	6399	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 14. Note: The data type of the data input is determined by L12-78. Input x L12-82/L12-83 = Output. The data type of the output data is finally determined by L12-79.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-80	High bit of the input of data type conversion module 14	2027	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 14 input. Note: The data type of the data input is determined by L12-78. Input x L12-82/L12-83 = Output. The data type of the output data is finally determined by L12-79.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-81	Low bit of the input of data type conversion module 14	2043	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 14. Note:								

	The data type of the data input is determined by L12-78. Input x L12-82/L12-83 = Output. The data type of the output data is finally determined by L12-79.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-82	Input coefficient 1 of data type conversion module 14 (MULTIPLY)	1709	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time

Description:
Defines input coefficient 1 of data type conversion module 14 (MULTIPLY).

Note:
The data type of the data input is determined by L12-78. Input x L12-82/L12-83 = Output. The data type of the output data is finally determined by L12-79.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-83	Input coefficient 2 of data type conversion module 14 (DIVIDE)	1725	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines input coefficient 2 of data type conversion module 14 (DIVIDE).

Note:
The data type of the data input is determined by L12-78. Input x L12-82/L12-83 = Output. The data type of the output data is finally determined by L12-79.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-84	Input selection of data type conversion module 15	2012	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Description:
Defines the data type of the data input of data type conversion module 15.

Value description:
0: Invalid - Data type conversion module is not enabled.
1: 16-bit signed integer

	2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type Note: 1. The data type of the data input is determined by L12-84. Input x L12-88/L12-89 = Output. The data type of the output data is finally determined by L12-85. 2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 15 input (L12-87). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 15 output (U15-84). 3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 15 input (L12-86) and low bit of data type conversion module 15 input (L12-87) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 15 output (U15-83) and low bit of data type conversion module 15 output (U15-84). 4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-85	Output selection of data type conversion module 15	6400	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type								
	Description: Defines the data type selected for the output of data type conversion module 15. Note: The data type of the data input is determined by L12-84. Input x L12-88/L12-89 = Output. The data type of the output data is finally determined by L12-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-86	High bit of the input of data type conversion module 15	2028	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description： Defines the high bit of data type conversion module 15 input. Note: The data type of the data input is determined by L12-84. Input x L12-88/L12-89 = Output. The data type of the output data is finally determined by L12-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-87	Low bit of the input of data type conversion module 15	2044	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the low bit of the input of data type conversion module 15. Note: The data type of the data input is determined by L12-84. Input x L12-88/L12-89 = Output. The data type of the output data is finally determined by L12-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-88	Input coefficient 1 of data type conversion module 15 (MULTIPLY)	1710	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 1 of data type conversion module 15 (MULTIPLY). Note: The data type of the data input is determined by L12-84. Input x L12-88/L12-89 = Output. The data type of the output data is finally determined by L12-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-89	Input coefficient 2 of data type conversion module 15 (DIVIDE)	1726	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines input coefficient 2 of data type conversion module 15 (DIVIDE).								

	Note: The data type of the data input is determined by L12-84. Input x L12-88/L12-89 = Output. The data type of the output data is finally determined by L12-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-90	Input selection of data type conversion module 16	2013	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Description:

Defines the data type of the data input of data type conversion module 16.

Value description:

0: Invalid - Data type conversion module is not enabled.
1: 16-bit signed integer
2: 16-bit unsigned integer
3: 32-bit signed integer
4: 32-bit unsigned integer
5: Single-precision floating-point type

Note:

1. The data type of the data input is determined by L12-90. Input x L12-94/L12-95 = Output. The data type of the output data is finally determined by L12-91.
2. If the data input type is single word (16-bit), connect the data input to the low bit of data type conversion module 16 input (L12-93). Similarly, if the output data type is single word (16-bit), the output can be monitored through the low bit of data type conversion module 16 output (U15-86).
3. If the data input type is double word (32-bit) or floating-point type, connect the high bit and low bit of the data input to the high bit of data type conversion module 16 input (L12-92) and low bit of data type conversion module 16 input (L12-93) respectively. Similarly, if the output data type is double word (32-bit) or floating-point type, the output can be used to monitor the high and low bits of the output data through the high bit of data type conversion module 16 output (U15-85) and low bit of data type conversion module 16 output (U15-86).
4. When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-91	Output selection of data type conversion module 16	6401	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 1: 16-bit signed integer 2: 16-bit unsigned integer 3: 32-bit signed integer 4: 32-bit unsigned integer 5: Single-precision floating-point type
	Description: Defines the data type selected for the output of data type conversion module 16. Note: The data type of the data input is determined by L12-90. Input x L12-94/L12-95 = Output. The data type of the output data is finally determined by L12-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-92	High bit of the input of data type conversion module 16	2029	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high bit of data type conversion module 16 input. Note: The data type of the data input is determined by L12-90. Input x L12-94/L12-95 = Output. The data type of the output data is finally determined by L12-91.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-93	Low bit of the input of data type conversion module 16	2045	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low bit of the input of data type conversion module 16. Note: The data type of the data input is determined by L12-90. Input x L12-94/L12-95 = Output. The data type of the output data is finally determined by L12-91.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L12-94	Input coefficient 1 of data type conversion module 16 (MULTIPLY)	1711	-32768 to +32767	1	Signed 16 bits	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 1 of data type conversion module 16 (MULTIPLY). Note: The data type of the data input is determined by L12-90. Input x L12-94/L12-95 = Output. The data type of the output data is finally determined by L12-91.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L12-95	Input coefficient 2 of data type conversion module 16 (DIVIDE)	1727	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines input coefficient 2 of data type conversion module 16 (DIVIDE). Note: The data type of the data input is determined by L12-90. Input x L12-94/L12-95 = Output. The data type of the output data is finally determined by L12-91.								

L13: Limit Function Parameters

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-00	Source of positive hardware limit 1	5825	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of positive hardware limit 1. Note: 1. A limit switch is placed in the limit position and the digital switch signal fed back by the limit switch is connected to the controller. Parameters L13-00 to L13-03 provide two groups of positive and negative hardware limit functions. You can								

	configure it based on actual conditions. The limit function is triggered by the rising edge. 2. When the limit switch is exceeded during operation, the limit status will be activated and A189-1 is reported. In this case, the controller decelerates or stops according to the setting of L13-04. 3. You can view and monitor through U1-82 (Hardware limit 1 activated) and U1-83 (Positive hardware limit 1 activated).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-01	Source of negative hardware limit 1	5827	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid	4: DI3	8: DIL
1: Reserved	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2
3: DI2	7: DI6	Others: B connector

Description:

Defines the source of negative hardware limit 1.

Note:

When the limit switch is exceeded during operation, the limit status will be activated and A189-2 is reported. In this case, the controller decelerates or stops according to the setting of L13-04. You can view and monitor through U1-82 (Hardware limit 1 activated) and U1-84 (Positive hardware limit 1 activated).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-02	Source of positive hardware limit 2	5826	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid	4: DI3	8: DIL
1: Reserved	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2
3: DI2	7: DI6	Others: B connector

Description:

Defines the source of positive hardware limit 2.

Note:

When the limit switch is exceeded during operation, the limit status will be activated and A189-5 is reported. In this case, the controller decelerates or stops according to the setting of L13-05. You can view and monitor through U1-88 (Hardware limit 2 activated) and U1-89 (Positive hardware limit 2 activated).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-03	Source of negative	5828	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	hardware limit 2								
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of negative hardware limit 2. Note: When the limit switch is exceeded during operation, the limit status will be activated and A189-6 is reported. In this case, the controller decelerates or stops according to the setting of L13-05. You can view and monitor through U1-88 (Hardware limit 2 activated) and U1-90 (Positive hardware limit 2 activated).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-04	Action of hardware limit 1	5829	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Decelerate to stop 2: OFF3 mode 3: Decelerate to zero speed								
	Description: Defines the action of hardware limit 1. Value description: 0: Coast to stop - The output is blocked immediately, but the shaft continues operating for some distance due to inertia. 1: Decelerate to stop - The motor decelerates to 0 and stops based on the deceleration time of the effective ramp function generator. 2: OFF3 stop mode: The drive stops as specified by E1-16. 3: Decelerate to zero speed - The motor decelerates to zero speed without stop based on the deceleration time defined by L13-07.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-05	Action of hardware limit 2	5830	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Coast to stop 1: Decelerate to stop 2: OFF3 mode 3: Decelerate to zero speed								
	Description:								

	Defines the action of hardware limit 2. Value description: 0: Coast to stop - The output is blocked immediately, but the shaft continues operating for some distance due to inertia. 1: Decelerate to stop - The motor decelerates to 0 and stops based on the deceleration time of the effective ramp function generator. 2: OFF3 stop mode: The drive stops as specified by E1-16. 3: Decelerate to zero speed - The motor decelerates to zero speed without stop based on the deceleration time defined by L13-07.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-06	Software limit action	5833	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Coast to stop 1： Decelerate to stop 2： OFF3 mode 3： Decelerate to zero speed								
	Description： Defines the action of software limit. Value description: 0: Coast to stop - The output is blocked immediately, but the shaft continues operating for some distance due to inertia. 1: Decelerate to stop - The motor decelerates to 0 and stops based on the deceleration time of the effective ramp function generator. 2: OFF3 stop mode: The drive stops as specified by E1-16. 3: Decelerate to zero speed - The motor decelerates to zero speed without stop based on the deceleration time defined by L13-07. Note: 1. When the home is active, the drive compares the real-time position feedback of the controller with the set limit and takes corresponding actions if the actual position exceeds the limit. The prerequisite for using soft limit is that homing has been performed. 2. The software limit function can be enabled or disabled through o17-61. The limit value is set through o17-62 and o17-63. The unit is the same as the position reference UU set by the host controller. 3. When the software limit state is activated, A189-3/A189-4 will be reported, and the controller decelerates or stops according to the action mode set by L13-06. You can view and monitor through U1-85 (Software limit activated), U1-86 (Positive software limit activated), and U1-87 (Positive software limit activated).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L13-07	Limit deceleration	5837	0.0-1000.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	time								
	Description: Defines the limit deceleration time.								

L14 Ramp function generator module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-00	Ramp module function	6600	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable ramp module function.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-01	Ramp module A input	6601	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of ramp module A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-02	Acceleration time of ramp module A	6603	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the acceleration time of ramp module A. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100%. This setting takes effect when L14-00 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L14-03	Deceleration time of ramp module	6604	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the deceleration time of ramp module A. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% to 0%. This setting takes effect when L14-00 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-04	Acceleration start arc of ramp module A	6605	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the acceleration start arc of ramp module A to reduce the impact when acceleration changes. Note: The acceleration start arc is the time for changing from 0 to the maximum acceleration (determined by the acceleration time) when the motor is accelerating from steady speed. This setting takes effect when L14-00 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-05	Acceleration end arc of ramp module A	6606	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the acceleration end arc of ramp module A to reduce the impact when acceleration changes. Note: The acceleration end arc is the time for changing from maximum acceleration (determined by the acceleration time) to the steady speed before the motor reaches the steady speed (acceleration process). This setting takes effect when L14-00 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-06	Deceleration start arc of ramp module A	6607	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the deceleration start arc of ramp module A to reduce the impact when acceleration changes. Note: The deceleration start arc is the time for changing from 0 to the maximum acceleration (determined by the deceleration								

	time) when the motor is decelerating from steady speed. This setting takes effect when L14-00 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-07	Deceleration end arc of ramp module A	6608	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the deceleration end arc of ramp module A to reduce the impact when acceleration changes. Note: The deceleration end arc is the time for changing from maximum acceleration (determined by the deceleration time) to 0 before the motor reaches the steady speed (deceleration process). This setting takes effect when L14-00 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-08	Ramp module A output enabled forcibly	6615	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable ramp module A output forcibly. When this parameter is enabled, the output of the ramp function generator (RFG) is always set to the value defined by L14-09 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-09	Forced ramp module A output	6617	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: When L14-08 is enabled, the output of the ramp function generator (RFG) is set to the value defined by this parameter forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-10	Ramp module A pause	6619	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Enable 1：Disable Others：B connector
	Description： Used to pause the ramp module A.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-11	Ramp module B input	6602	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the input of ramp module B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-12	Acceleration time of ramp module B	6609	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the acceleration time of ramp module B. Note: The acceleration time is the time required for the ramp function generator (RFG) output to increase from 0% to 100%. This setting takes effect when L14-00 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-13	Deceleration time of ramp module B	6610	0.0-1000.0	20.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the deceleration time of ramp module B. Note: The deceleration time is the time required for the ramp function generator (RFG) output to decrease from 100% to 0%. This setting takes effect when L14-00 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-14	Acceleration start arc of ramp module B	6611	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description: Defines the acceleration start arc of ramp module B to reduce the impact when acceleration changes. Note: The acceleration start arc is the time for changing from 0 to the maximum acceleration (determined by the acceleration time) when the motor is accelerating from steady speed. This setting takes effect when L14-00 is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-15	Acceleration end arc of ramp module B	6612	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the acceleration end arc of ramp module B to reduce the impact when acceleration changes. Note: The acceleration end arc is the time for changing from maximum acceleration (determined by the acceleration time) to the steady speed before the motor reaches the steady speed (acceleration process). This setting takes effect when L14-00 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-16	Deceleration start arc of ramp module B	6613	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the deceleration start arc of ramp module B to reduce the impact when acceleration changes. Note: The deceleration start arc is the time for changing from 0 to the maximum acceleration (determined by the deceleration time) when the motor is decelerating from steady speed. This setting takes effect when L14-00 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-17	Deceleration end arc of ramp module B	6614	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the deceleration end arc of ramp module B to reduce the impact when acceleration changes. Note: The deceleration end arc is the time for changing from maximum acceleration (determined by the deceleration time) to 0 before the motor reaches the steady speed (deceleration process). This setting takes effect when L14-00 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

L14-18	Ramp module B output enabled forcibly	6616	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable ramp module B output forcibly. When this parameter is enabled, the output of the ramp function generator (RFG) is always set to the value defined by L14-19 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-19	Forced output of ramp module B	6618	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: When L14-18 is enabled, the output of the ramp function generator (RFG) is set to the value defined by this parameter forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L14-20	Ramp module B pause	6620	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enable 1: Disable Others: B connector								
	Description: Used to pause the ramp module B.								

L15 Load monitoring module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-00	Load monitoring signal	6621	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Monitoring disabled 1： Output current (U6-00) 2： Output torque (U6-01) 3： Output power (U6-99) Others： K connector
	Description： Defines the load monitoring signal. Note: The load monitoring module is used to monitor input signals (such as output current, output torque, and output power) related to the output speed of the drive. This function includes underload monitoring and overload monitoring. Underload monitoring can be used for load loss detection (such as conveyor belt breakage and mechanical shaft breakage). Overload monitoring can be used to detect whether the drive load is blocked (such as motor stall).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-01	Load monitoring state	36264	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0： Monitoring is not active. 1： Monitoring is active.								
	Description： Displays the load monitoring status.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-02	Action when overload is monitored	6622	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： No alarm/fault 1： Alarm 2： Fault 3： Alarm/Fault								
	Description： Defines the action when overload is monitored. Value description: 0: No alarm/No fault - No alarm/fault is generated. 1: Alarm - Overload/Undervoltage alarm is generated. 2: Fault - Overload/Undervoltage fault is generated. 3: Alarm/Fault - The monitoring signal exceeds the overload curve continuously for a period longer than L15-19. A191-1 (Overload alarm) is reported when half of the delay time elapses. F190-1 (Overload fault) is reported when the value of L15-19 is exceeded.								

	Note: 1. During load monitoring, the load monitoring signal exceeds the values of L15-04 to L15-18. F190-1-Load monitoring fault-Load monitoring overload or A191-1-Load monitoring alarm-Load monitoring overload prompt is reported based on the setting of L15-02 and L15-19/L15-20. 2. The load monitoring status word (U15-87) can be used to display the load monitoring status. bit0/bit1 is independent of the monitoring action and monitoring delay selected by L15-02, L15-03, L15-19, and L15-20. bit2/bit3 is determined by the monitoring action and monitoring delay selected by L15-02, L15-03, L15-19, and L15-20.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-03	Action when underload is monitored	6623	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: No alarm/fault 1: Alarm 2: Fault 3: Alarm/Fault								
	Description: Defines the action when underload is monitored. Value description: 0: No alarm/No fault - No alarm/fault is generated. 1: Alarm - Overload/Undervoltage alarm is generated. 2: Fault - Overload/Undervoltage fault is generated. 3: Alarm/Fault - The monitoring signal exceeds the overload curve continuously for a period longer than L15-20. A191-2 (Overload alarm) is reported when half of the delay time elapses. F190-2 (Overload fault) is reported when the value of L15-20 is exceeded. Note: During load monitoring, the load monitoring signal exceeds the values of L15-04 to L15-18. F190-2-Load monitoring fault-Load monitoring underload or A191-2-Load monitoring alarm-Load monitoring overload prompt is reported based on the setting of L15-02 and L15-19/L15-20.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-04	Load monitoring speed point 1	6624	0-600	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the first speed point on the x-coordinate in load monitoring state. The speed point is valid symmetrically in the negative direction.								

	Note: 1. Speeds on the load monitoring curve are incremental (that is, L15-04 < L15-05 < L15-06 < L15-07 < L15-08). 2. The actual motor speed is within the range of L15-04 to L15-08.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-05	Load monitoring speed point 2	6625	0-600	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the second speed point on the x-coordinate in load monitoring state. The speed point is valid symmetrically in the negative direction. Note: 1. Speeds on the load monitoring curve are incremental (that is, L15-04 < L15-05 < L15-06 < L15-07 < L15-08). 2. The actual motor speed is within the range of L15-04 to L15-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-06	Load monitoring speed point 3	6626	0-600	86	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the third speed point on the x-coordinate in load monitoring state. The speed point is valid symmetrically in the negative direction. Note: 1. Speeds on the load monitoring curve are incremental (that is, L15-04 < L15-05 < L15-06 < L15-07 < L15-08). 2. The actual motor speed is within the range of L15-04 to L15-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-07	Load monitoring speed point 4	6627	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the fourth speed point on the x-coordinate in load monitoring state. The speed point is valid symmetrically in the negative direction. Note: 1. Speeds on the load monitoring curve are incremental (that is, L15-04 < L15-05 < L15-06 < L15-07 < L15-08). 2. The actual motor speed is within the range of L15-04 to L15-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-	Load monitoring	6628	0-600	120	Unsigned	0.1	Real time	General	Effective

08	speed point 5				16 bit		changes	user	in real time
	Description: Defines the fifth speed point on the x-coordinate in load monitoring state. The speed point is valid symmetrically in the negative direction. Note: 1. Speeds on the load monitoring curve are incremental (that is, L15-04 < L15-05 < L15-06 < L15-07 < L15-08). 2. The actual motor speed is within the range of L15-04 to L15-08.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-09	Load monitoring underload threshold 1	6629	0-400	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring underload threshold 1. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring underload curve output (U15-88) can be used to display the speed/underload curve corresponding to the current speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-10	Load monitoring overload threshold 1	6634	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring overload threshold 1. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring overload curve output (U15-89) can be used to display the speed/overload curve corresponding to the current speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-11	Load monitoring underload threshold 2	6630	0-400	15	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring underload threshold 2. Note:								

	The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring underload curve output (U15-88) can be used to display the speed/underload curve corresponding to the current speed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-12	Load monitoring overload threshold 2	6635	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring overload threshold 2. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring overload curve output (U15-89) can be used to display the speed/overload curve corresponding to the current speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-13	Load monitoring underload threshold 3	6631	0-400	25	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring underload threshold 3. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring underload curve output (U15-88) can be used to display the speed/underload curve corresponding to the current speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-14	Load monitoring overload threshold 3	6636	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring overload threshold 3. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring overload curve output (U15-89) can be used to display the speed/overload curve corresponding to the current speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-	Load monitoring	6632	0-400	35	Unsigned	0.1	Real time	General	Effective

15	underload threshold 4				16 bit		changes	user	in real time
	Description: Defines the load monitoring underload threshold 4. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring underload curve output (U15-88) can be used to display the speed/underload curve corresponding to the current speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-16	Load monitoring overload threshold 4	6637	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring overload threshold 4. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring overload curve output (U15-89) can be used to display the speed/overload curve corresponding to the current speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-17	Load monitoring underload threshold 5	6633	0-400	50	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring underload threshold 5. Note: The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring underload curve output (U15-88) can be used to display the speed/underload curve corresponding to the current speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-18	Load monitoring overload threshold 5	6638	0-400	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring overload threshold 5. Note:								

	The overload threshold is higher than the underload threshold under the same speed point in the load monitoring curve. The load monitoring overload curve output (U15-89) can be used to display the speed/overload curve corresponding to the current speed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-19	Load monitoring overload delay	6639	0.0-1000.0	10.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines load monitoring overload delay.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L15-20	Load monitoring underload delay	6640	0.0-1000.0	10.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the load monitoring underload delay.								

L16 Pulse counting module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-00	Pulse counting module enable	6405	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to set whether the pulse counting module is enabled. Note: The pulse counting module is used to convert the encoder pulse value to a position value to be placed in the connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-01	Source of the initial value of pulse counting	6450	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：L16-02 1：Value saved at power failure
	Description： Defines the source of the initial value of pulse counting.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-02	Initial value of pulse counting	6451	-2147483648 to +2147483647	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description： Defines the initial value of pulse counting. Note: This parameter is active when L16-01 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-03	Pulse counting source	6453	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Encoder detection module 1 1：Encoder detection module 2 2：Encoder detection module 3								
	Description： Defines the pulse counting source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-04	Numerator of pulse counting proportional coefficient	6406	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the numerator of the pulse count proportional coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-05	Denominator of pulse counting proportional coefficient	6407	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the denominator of the pulse counting proportional coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-06	Pulse counting direction	6417	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Forward 1: Reverse Others: B connector								
	Description: Defines the pulse counting direction.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-07	Pulse counting enabled forcibly	6408	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Defines whether to enable pulse counting forcibly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-08	Source of forced pulse counting value	6409	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: L16-09 Others: K connector								
	Description: Defines the source of forced pulse counting value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-09	Forced value of pulse counting	6410	-2147483648 to +2147483647	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Defines the forced value of pulse counting.								

	Note: This parameter is active when L16-08 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-10	Pulse counting pause	6412	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Used to pause pulse counting.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-11	Pulse counting reset	6413	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to reset pulse counting.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-12	Source of pulse counting reset value	6414	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 1: L16-13 Others: K connector								
	Description: Defines the source of pulse counting reset value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L16-13	Pulse counting reset value	6415	-2147483648 to +2147483647	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the pulse counting reset value. Note: This parameter is active when L16-12 is set to 1.

L18 Statistics function

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-00	Action when relay (RO1/RO2/RO3) lifetime reached	7823	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Action when RO1 lifetime reached	0: No alarm/fault 1: Alarm 2: Fault 3: Alarm/Fault
Tens-	Action when RO2 lifetime reached	0: No alarm/fault 1: Alarm 2: Fault 3: Alarm/Fault
Hundreds-	Action when RO3 lifetime reached	0: No alarm/fault 1: Alarm 2: Fault 3: Alarm/fault

Description:

Defines the action when the relay (RO1/RO2/RO3) lifetime is reached.

Note:

When the relay reaches the set alarm/fault threshold, the corresponding alarm A201 or fault F215 is triggered according to the setting of L18-00.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-02	Threshold for residual lifetime alarm of the relay (RO1)	7815	0-100	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description: Defines the threshold for residual lifetime alarm of the relay (RO1). Note: When this threshold is reached, the system reports A201-1-Device lifetime reached-RO1 lifetime reached.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-03	Threshold for residual lifetime fault of the relay (RO1)	7819	0-100	1	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for residual lifetime fault of the relay (RO1). Note: When this threshold is reached, the system reports F215-1-Device lifetime reached-RO1 lifetime reached.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-05	Displayed value of residual lifetime of the relay (RO1)	37444	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the residual lifetime of the relay (RO1).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-08	Threshold of relay (RO2) lifetime alarm	7816	0-100	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for residual lifetime alarm of the relay (RO2). Note: When this threshold is reached, the system reports A201-2-Device lifetime reached-RO2 lifetime reached.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-	Threshold for	7820	0-100	1	Unsigned	0.1	Real time	General	Effective

09	residual lifetime fault of the relay (RO2)				16 bit		changes	user	in real time
	Description: Defines the threshold for residual lifetime fault of the relay (RO2). Note: When this threshold is reached, the system reports F215-2-Device lifetime reached-RO2 lifetime reached.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-11	Displayed value of residual lifetime of the relay (RO2)	37445	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the residual lifetime of the relay (RO2).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-14	Threshold of relay (RO3) lifetime alarm	7817	0-100	10	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for residual lifetime alarm of the relay (RO3). Note: When this threshold is reached, the system reports A201-3-Device lifetime reached-RO3 lifetime reached.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-15	Threshold for residual lifetime fault of the relay (RO3)	7821	0-100	1	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for residual lifetime fault of the relay (RO3). Note: When this threshold is reached, the system reports F215-3-Device lifetime reached-RO3 lifetime reached.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
L18-17	Displayed value of residual lifetime of the relay (RO3)	37446	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the residual lifetime of the relay (RO3).								

n0 InoLink communication

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-00	InoLink communication selection	1377	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled Others: B connector								
	Description: Defines whether to enable InoLink communication. Note: InoLink is used for master and slave communication between multiple drive units and supports a network of up to 16 controllers. You can configure the InoLink communication network through n0-02 to n0-19 and configure the data sent and received through n0-20 to n0-77. The received data can be monitored through U5-32 to U5-39.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-01	InoLink state	36289	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Node address conflict 2: Baud rate mismatch 3: Bus disconnected or bus error 4: Communication OK 5: Listen-only mode 6: Unreliable communication (massive CRC errors) 7: Excessive data interaction								

	8：Waiting
	Description： Displays the current InoLink state. Value description: 0: Disabled 1: Node address conflict - Conflict nodes exist in the current network. 2: Baud rate mismatch 3: Bus disconnected or bus error 4: Communication OK 5: Listen-only mode - Enter the listen-only mode when n0-02 is set to 0. 6: Unreliable communication (massive CRC errors) 7: Excessive data interaction - Reduce the number of data interactions in the network or extend the InoLink data interaction cycle through n0-08. 8: Waiting

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-02	Local node address	1378	0-16	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the local node address. Note: A maximum of 16 nodes are supported. Set the controller with node address 1 as the communication master. One master must be present in a network and the node addresses of all controllers cannot come into conflict with each other. When the node address is set to 0, the listen-only mode applies, without sending data to the network. F83-1 InoLink: Address conflict is triggered if the same node address exists in the same network.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-03	InoLink fault mode selection	2911	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Standard mode 1：No fault prompt mode Others：B connector								
	Description：								

	Defines the InoLink fault mode. Value description: 0: Standard mode - InoLink-related faults are reported normally. 1: No fault prompt mode - No fault prompt is reported. Others: B connector Note: If a controller receives no data from any other controller, it reports F83-2 offline fault (the master does not report this fault). If the controller receives no data within 2s, it reports F83-3 receiver offline fault. If the station number of a new controller is the same as that of an existing controller in the network, the controller reports F83-1 address conflict fault.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-04	InoLink node restart judgment time	6726	0.040-2.000	0.100	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the restart judgment time of the InoLink node. Note: When Inolink is enabled and no node data is received within the time set by this parameter, F83-2 InoLink communication offline fault is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-06	InoLink communication mode selection	6718	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Standard mode 1: Custom mode								
	Description: Defines the InoLink communication mode. Value description: 0: Standard mode - The baud rate is 5M. The data transmission bit width is 16-bit. The total number of nodes is 16. The number of process data interactions is 8. The data interaction cycle is 2 ms. 1: Custom mode - Configured by n0-08 Note:								

When the controller is in the listen-only mode and the node is offline, the actual communication mode is switched cyclically between the standard and custom modes. Check the actual communication mode of InoLink through n0-07.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-07	Actual communication mode of InoLink	36296	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: Standard mode

1: Custom mode

Description:

Used to check the actual communication mode of InoLink.

Value description:

0: Standard mode - The baud rate is 5M. The data transmission bit width is 16-bit. The total number of nodes is 16. The number of process data interactions is 8. The data interaction cycle is 2 ms.

1: Custom mode - Configured by n0-08

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-08	InoLink communication custom mode configuration	6725	Refer to "Value"	350	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	InoLink communication rate selection	0: Follow the master 1: 5 Mbps 2: 2 Mbps 3: 1 Mbps 4: 500 kbps
Tens	Total number of InoLink nodes	0: 2 1: 4 2: 8 3: 10 4: 12 5: 16

Hundreds-	Number of InoLink process data interactions	0: 1 1: 2 2: 4 3: 8
Thousands-	InoLink data interaction cycle	0: 2 ms 1: 1 ms 2: 0.5 ms 3: 0.2 ms

Description:

Defines the InoLink communication custom mode configuration, which is valid only when n0-07 is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-09	InoLink network baud rate	36291	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: To be determined
1: 5 Mbps
2: 2 Mbps
3: 1 Mbps
4: 500 kbps

Description:

Displays the actual baud rate of InoLink network.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-10	InoLink data transmission bit width	36292	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: 8 bits
1: 16 bits

Description:

Displays the bit width of InoLink data transmission.

Note:

The standard mode is 16-bit, and the custom mode is 8-bit.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n0-16	Total number of InoLink nodes	36293	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the total number of InoLink nodes.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-17	Number of InoLink process data interactions	36294	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the current number of InoLink process data interactions.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-18	InoLink data interaction cycle	36295	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: 2 ms 1: 1 ms 2: 0.5 ms 3: 0.2 ms								
	Description: Displays the current InoLink data interaction cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-19	InoLink auxiliary function setting	6727	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: Bit / Name / Value Ones- / Time base synchronization / 0: Disabled 1: Enable								
	Description: Used to set the InoLink auxiliary function, which is currently reserved.								

	Value description: Ones-: Time base synchronization - (reserved) 0: Disabled 1: Enabled

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-20	Transmission data 1 selection	1395	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Used to set the transmitting data 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-21	Transmission data 2 selection	1396	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Used to set the transmitting data 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-22	Transmission data 3 selection	1397	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Used to set the transmitting data 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-23	Transmission data 4 selection	1398	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the transmitting data 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-24	Transmission data 5 selection	1399	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the transmitting data 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-25	Transmission data 6 selection	1400	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the transmitting data 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-26	Transmission data 7 selection	1401	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value: 0: 0 Others: K connector								
	Description: Used to set the transmitting data 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-27	Transmission data 8 selection	1402	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the transmitting data 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-40	Source node of received data 1	2175	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Node 1 2: Node 2 3: Node 3 4: Node 4 5: Node 5 6: Node 6 7: Node 7 8: Node 8 9: Node 9 10: Node 10 11: Node 11 12: Node 12 13: Node 13 14: Node 14 15: Node 15 16: Node 16								
	Description: Defines the source node of received data 1. Note: The received data 1 will be multiplied by n0-70 (Proportion of received data 1) before being displayed in InoLink.PZD1 (U5-32). Each bit of InoLink.PZD1 can be monitored through U2-32 to U2-47.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n0-41	Data selection for received data 1	1379	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8								
	Description: Used to set the data selection for received data 1. Note: The received data 1 will be multiplied by n0-70 (Proportion of received data 1) before being displayed in InoLink.PZD1 (U5-32). Each bit of InoLink.PZD1 can be monitored through U2-32 to U2-47.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-42	Source node of received data 2	2176	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Node 1 2: Node 2 3: Node 3 4: Node 4 5: Node 5 6: Node 6 7: Node 7 8: Node 8 9: Node 9 10: Node 10 11: Node 11 12: Node 12 13: Node 13 14: Node 14 15: Node 15 16: Node 16								
	Description: Defines the source node of received data 2. Note: The received data 2 will be multiplied by n0-71 (Proportion of received data 1) before being displayed in InoLink.PZD2 (U5-33).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-43	Data selection for received data 2	1380	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8
	Description: Used to set the data selection for received data 2. Note: The received data 2 will be multiplied by n0-71 (Proportion of received data 1) before being displayed in InoLink.PZD2 (U5-33).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-44	Source node of received data 3	2177	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Node 1 2: Node 2 3: Node 3 4: Node 4 5: Node 5 6: Node 6 7: Node 7 8: Node 8 9: Node 9 10: Node 10 11: Node 11 12: Node 12 13: Node 13 14: Node 14 15: Node 15 16: Node 16								
	Description: Defines the source node of received data 3. Note: The received data 3 will be multiplied by n0-72 (Proportion of received data 1) before being displayed in InoLink.PZD3 (U5-34).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-45	Data selection for received data 3	1381	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Data 1 2: Data 2 3: Data 3 5: Data 5 6: Data 6 7: Data 7								

	4：Data 4 8：Data 8								
	Description： Used to set the data selection for received data 3. Note: The received data 3 will be multiplied by n0-72 (Proportion of received data 1) before being displayed in InoLink.PZD3 (U5-34).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-46	Source node of received data 4	2178	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 6：Node 6 12：Node 12 1：Node 1 7：Node 7 13：Node 13 2：Node 2 8：Node 8 14：Node 14 3：Node 3 9：Node 9 15：Node 15 4：Node 4 10：Node 10 16：Node 16 5：Node 5 11：Node 11								
	Description： Defines the source node of received data 4. Note: The received data 4 will be multiplied by n0-73 (Proportion of received data 1) before being displayed in InoLink.PZD4 (U5-35).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-47	Data selection for received data 4	1382	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Data 1 5：Data 5 2：Data 2 6：Data 6 3：Data 3 7：Data 7 4：Data 4 8：Data 8								
	Description： Used to set the data selection for received data 4.								

	Note: The received data 4 will be multiplied by n0-73 (Proportion of received data 1) before being displayed in InoLink.PZD4 (U5-35).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-48	Source node of received data 5	2179	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Disabled	6: Node 6	12: Node 12
1: Node 1	7: Node 7	13: Node 13
2: Node 2	8: Node 8	14: Node 14
3: Node 3	9: Node 9	15: Node 15
4: Node 4	10: Node 10	16: Node 16
5: Node 5	11: Node 11	

Description:

Defines the source node of received data 5.

Note:

The received data 5 will be multiplied by n0-74 (Proportion of received data 1) before being displayed in InoLink.PZD5 (U5-36).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-49	Data selection for received data 5	1383	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

1: Data 1	5: Data 5
2: Data 2	6: Data 6
3: Data 3	7: Data 7
4: Data 4	8: Data 8

Description:

Used to set the data selection for received data 5.

Note:

The received data 5 will be multiplied by n0-74 (Proportion of received data 1) before being displayed in InoLink.PZD5 (U5-36).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-50	Source node of received data 6	2180	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Node 1 2: Node 2 3: Node 3 4: Node 4 5: Node 5 6: Node 6 7: Node 7 8: Node 8 9: Node 9 10: Node 10 11: Node 11 12: Node 12 13: Node 13 14: Node 14 15: Node 15 16: Node 16								
	Description: Defines the source node of received data 6. Note: The received data 6 will be multiplied by n0-75 (Proportion of received data 1) before being displayed in InoLink.PZD6 (U5-37).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-51	Data selection for received data 6	1384	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8								
	Description: Used to set the data selection for received data 6. Note: The received data 6 will be multiplied by n0-75 (Proportion of received data 1) before being displayed in InoLink.PZD6 (U5-37).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-52	Source node of	2181	Refer to	0	Unsigned	1	Real time	General	Effective

	received data 7		"Value"		16 bit		changes	user	in real time
	Value: 0: Disabled 1: Node 1 2: Node 2 3: Node 3 4: Node 4 5: Node 5 6: Node 6 7: Node 7 8: Node 8 9: Node 9 10: Node 10 11: Node 11 12: Node 12 13: Node 13 14: Node 14 15: Node 15 16: Node 16								
	Description: Defines the source node of received data 7. Note: The received data 7 will be multiplied by n0-76 (Proportion of received data 1) before being displayed in InoLink.PZD7 (U5-38).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-53	Data selection for received data 7	1385	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8								
	Description: Used to set the data selection for received data 7. Note: The received data 7 will be multiplied by n0-76 (Proportion of received data 1) before being displayed in InoLink.PZD7 (U5-38).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-54	Source node of received data 8	2182	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Disabled	6：Node 6	12：Node 12
	1：Node 1	7：Node 7	13：Node 13
	2：Node 2	8：Node 8	14：Node 14
	3：Node 3	9：Node 9	15：Node 15
	4：Node 4	10：Node 10	16：Node 16
	5：Node 5	11：Node 11	
	Description： Defines the source node of received data 8. Note: The received data 8 will be multiplied by n0-77 (Proportion of received data 1) before being displayed in InoLink.PZD8 (U5-39).		

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-55	Data selection for received data 8	1386	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Data 1 2：Data 2 3：Data 3 4：Data 4 5：Data 5 6：Data 6 7：Data 7 8：Data 8								
	Description： Used to set the data selection for received data 8. Note: The received data 8 will be multiplied by n0-77 (Proportion of received data 1) before being displayed in InoLink.PZD8 (U5-39).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-70	Proportion of received data 1	1387	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description： Defines the proportion of received data 1. Note: The received data 1 will be multiplied by n0-70 (Proportion of received data 1) before being displayed in InoLink.PZD1 (U5-								

	32). Each bit of InoLink.PZD1 can be monitored through U2-32 to U2-47.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-71	Proportion of received data 2	1388	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 2. Note: The received data 2 will be multiplied by n0-71 (Proportion of received data 1) before being displayed in InoLink.PZD2 (U5-33).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-72	Proportion of received data 3	1389	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 3. Note: The received data 3 will be multiplied by n0-72 (Proportion of received data 1) before being displayed in InoLink.PZD3 (U5-34).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-73	Received data 4 ratio	1390	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 4. Note: The received data 4 will be multiplied by n0-73 (Proportion of received data 1) before being displayed in InoLink.PZD4 (U5-35).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n0-74	Received data 5 ratio	1391	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 5. Note: The received data 5 will be multiplied by n0-74 (Proportion of received data 1) before being displayed in InoLink.PZD5 (U5-36).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-75	Received data 6 ratio	1392	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 6. Note: The received data 6 will be multiplied by n0-75 (Proportion of received data 1) before being displayed in InoLink.PZD6 (U5-37).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-76	Received data 7 ratio	1393	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 7. Note: The received data 7 will be multiplied by n0-76 (Proportion of received data 1) before being displayed in InoLink.PZD7 (U5-38).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n0-77	Received data 8 ratio	1394	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description:								

	Defines the proportion of received data 8. Note: The received data 8 will be multiplied by n0-77 (Proportion of received data 1) before being displayed in InoLink.PZD8 (U5-39).

n1: Bus Adapter A

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-00	Bus type for bus adapter A	1403	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: None 1: Modbus-RTU module 2: Reserved 3: CANopen module 5: EtherCAT module 6: HDVN module 7: PROFIBUS-DP module 8: ProfiNet I/O module 9: Custom communication module 12: EtherNet/IP module								
	Description: Defines the communication bus type of bus adapter A. Note: The fieldbus adapter is used for communication between the fieldbus and the drive. It supports a variety of external communication modules. The fieldbus adapter provides 16 input and output process data (n1-04 to n1-83). Each process data channel can be set with a custom base value (n1-20 to n1-51) to achieve the conversion ratio of data received and data sent by the fieldbus adapter. The communication fault detection mode can be set through the bus adapter communication mode selection (n1-02). The communication disconnection detection delay (n1-01) and communication continuous CRC check error detection (n1-03) can be used to set disconnection detection error and CRC detection error. The single word process data of the fieldbus adapter can be used to enable double word data interaction (n33 to n34) in the form of combination of two single words.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-01	Disconnection detection delay of bus adapter A	1404	0.00-60.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the disconnection detection delay of bus adapter A. Note: When the communication mode of the bus adapter (n1-02) is the standard mode, F67-1 (External bus of adapter A timeout) is triggered when the external bus is disconnected during communication for a period longer than the time set by n1-01. If the disconnection state persists, A156-1 (Communication error between bus adapter A and host controller) is triggered. When this parameter is set to 0, this fault is not detected.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-02	Communication mode selection for bus adapter A	3907	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Standard mode 1: No fault prompt mode Others: B connector								
	Description: Defines the communication mode of the bus adapter. Value description: 0: Standard fault - The fault is triggered when external bus communication is abnormal. 1: No fault prompt mode - All communication-related faults are not reported. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-03	Continuous CRC error detection setting	1406	0-5000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines continuous CRC error detection. Note: The setpoint 0 indicates detection is inactive. When the communication mode of the bus adapter (n1-02) is set to the standard mode, F67-15 (Received data check error of communication card of adapter A)/F67-16 (Transmission data check error of communication card of adapter A) is triggered when the value of this parameter is exceeded.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n1-04	Process data output 1	1407	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 1. Note: Process data output 1 data display (n1-52) = Process data output 1 (n1-04) x Process data output 1 communication base value (n1-20)/Process data output 1 communication base value/4096 When the communication base value for process data output 1 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-05	Process data output 2	1408	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 2. Note: Process data output 2 data display (n1-53) = Process data output 2 (n1-05) x Process data output 2 communication base value (n1-21)/Process data output 2 communication base value/4096 When the communication base value for process data output 2 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-06	Process data output 3	1409	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector
	Description： Defines process data output 3. Note: Process data output 3 data display (n1-54) = Process data output 3 (n1-06) x Process data output 3 communication base value (n1-22)/Process data output 3 communication base value/4096 When the communication base value for process data output 3 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-07	Process data output 4	1410	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 4. Note: Process data output 4 data display (n1-55) = Process data output 4 (n1-07) x Process data output 4 communication base value (n1-23)/Process data output 4 communication base value/4096 When the communication base value for process data output 4 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-08	Process data output 5	1411	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 5. Note: Process data output 5 data display (n1-56) = Process data output 5 (n1-08) x Process data output 5 communication base value (n1-24)/Process data output 5 communication base value/4096 When the communication base value for process								

	data output 5 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-09	Process data output 6	1412	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 6. Note: Process data output 6 data display (n1-57) = Process data output 6 (n1-09) x Process data output 6 communication base value (n1-25)/Process data output 6 communication base value/4096 When the communication base value for process data output 6 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-10	Process data output 7	1413	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 7. Note: Process data output 7 data display (n1-58) = Process data output 7 (n1-10) x Process data output 7 communication base value (n1-26)/Process data output 7 communication base value/4096 When the communication base value for process data output 7 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-11	Process data output 8	1414	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others： K connector
	Description： Defines process data output 8. Note: Process data output 8 data display (n1-59) = Process data output 8 (n1-11) x Process data output 8 communication base value (n1-27)/Process data output 8 communication base value/4096 When the communication base value for process data output 8 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-12	Process data output 9	1415	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 9. Note: Process data output 9 data display (n1-60) = Process data output 9 (n1-12) x Process data output 9 communication base value (n1-28)/Process data output 9 communication base value/4096 When the communication base value for process data output 9 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-13	Process data output 10	1416	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 10. Note:								

	Process data output 10 data display (n1-61) = Process data output 10 (n1-13) x Process data output 10 communication base value (n1-29)/Process data output 10 communication base value/4096 When the communication base value for process data output 10 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-14	Process data output 11	1417	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 11. Note: Process data output 11 data display (n1-62) = Process data output 11 (n1-14) x Process data output 11 communication base value (n1-30)/Process data output 11 communication base value/4096 When the communication base value for process data output 11 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-15	Process data output 12	1418	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 12. Note: Process data output 12 data display (n1-63) = Process data output 12 (n1-15) x Process data output 12 communication base value (n1-31)/Process data output 12 communication base value/4096 When the communication base value for process data output 12 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-16	Process data output	1419	Refer to	0	Unsigned	1	Real time	General	Effective in real

	13		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 13. Note: Process data output 13 data display (n1-64) = Process data output 13 (n1-16) x Process data output 13 communication base value (n1-32)/Process data output 13 communication base value/4096 When the communication base value for process data output 13 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-17	Process data output 14	1420	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 14. Note: Process data output 14 data display (n1-65) = Process data output 14 (n1-17) x Process data output 14 communication base value (n1-33)/Process data output 14 communication base value/4096 When the communication base value for process data output 14 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-18	Process data output 15	1421	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 15.								

	Note: Process data output 15 data display (n1-66) = Process data output 15 (n1-18) x Process data output 15 communication base value (n1-34)/Process data output 15 communication base value/4096 When the communication base value for process data output 15 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-19	Process data output 16	1422	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines process data output 16. Note: Process data output 16 data display (n1-67) = Process data output 16 (n1-19) x Process data output 16 communication base value (n1-35)/Process data output 16 communication base value/4096 When the communication base value for process data output 16 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-20	Communication base value of process data output 1	1439	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines communication base value of process data output 1. Note: Process data output 1 data display (n1-52) = Process data output 1 (n1-04) x Process data output 1 communication base value (n1-20)/Process data output 1 communication base value/4096 When the communication base value for process data output 1 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-21	Communication base value of process data output	1440	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	2								
	Description: Defines communication base value of process data output 2. Note: Process data output 2 data display (n1-53) = Process data output 2 (n1-05) x Process data output 2 communication base value (n1-21)/Process data output 2 communication base value/4096 When the communication base value for process data output 2 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-22	Communication base value of process data output 3	1441	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 3. Note: Process data output 3 data display (n1-54) = Process data output 3 (n1-06) x Process data output 3 communication base value (n1-22)/Process data output 3 communication base value/4096 When the communication base value for process data output 3 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-23	Communication base value of process data output 4	1442	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 4. Note: Process data output 4 data display (n1-55) = Process data output 4 (n1-07) x Process data output 4 communication base value (n1-23)/Process data output 4 communication base value/4096 When the communication base value for process data output 4 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-24	Communication base value of	1443	0-65535	0	Unsigned	1	Real time	General	Effective in real

	process data output 5				16 bit		changes	user	time
	Description: Defines communication base value of process data output 5. Note: Process data output 5 data display (n1-56) = Process data output 5 (n1-08) x Process data output 5 communication base value (n1-24)/Process data output 5 communication base value/4096 When the communication base value for process data output 5 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-25	Communication base value of process data output 6	1444	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 6. Note: Process data output 6 data display (n1-57) = Process data output 6 (n1-09) x Process data output 6 communication base value (n1-25)/Process data output 6 communication base value/4096 When the communication base value for process data output 6 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-26	Communication base value of process data output 7	1445	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 7. Note: Process data output 7 data display (n1-58) = Process data output 7 (n1-10) x Process data output 7 communication base value (n1-26)/Process data output 7 communication base value/4096 When the communication base value for process data output 7 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n1-27	Communication base value of process data output 8	1446	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 8. Note: Process data output 8 data display (n1-59) = Process data output 8 (n1-11) x Process data output 8 communication base value (n1-27)/Process data output 8 communication base value/4096 When the communication base value for process data output 8 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-28	Communication base value of process data output 9	1447	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 9. Note: Process data output 9 data display (n1-60) = Process data output 9 (n1-12) x Process data output 9 communication base value (n1-28)/Process data output 9 communication base value/4096 When the communication base value for process data output 9 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-29	Communication base value of process data output 10	1448	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 10. Note: Process data output 10 data display (n1-61) = Process data output 10 (n1-13) x Process data output 10 communication base value (n1-29)/Process data output 10 communication base value/4096 When the communication base value for process data output 10 is 0, base value conversion is not performed.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n1-30	Communication base value of process data output 11	1449	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 11. Note: Process data output 11 data display (n1-62) = Process data output 11 (n1-14) x Process data output 11 communication base value (n1-30)/Process data output 11 communication base value/4096 When the communication base value for process data output 11 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-31	Communication base value of process data output 12	1450	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 12. Note: Process data output 12 data display (n1-63) = Process data output 12 (n1-15) x Process data output 12 communication base value (n1-31)/Process data output 12 communication base value/4096 When the communication base value for process data output 12 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-32	Communication base value of process data output 13	1451	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 13. Note: Process data output 13 data display (n1-64) = Process data output 13 (n1-16) x Process data output 13 communication base value (n1-32)/Process data output 13 communication base value/4096 When the communication base value for process data output 13 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-33	Communication base value of process data output 14	1452	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 14. Note: Process data output 14 data display (n1-65) = Process data output 14 (n1-17) x Process data output 14 communication base value (n1-33)/Process data output 14 communication base value/4096 When the communication base value for process data output 14 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-34	Communication base value of process data output 15	1453	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 15. Note: Process data output 15 data display (n1-66) = Process data output 15 (n1-18) x Process data output 15 communication base value (n1-34)/Process data output 15 communication base value/4096 When the communication base value for process data output 15 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-35	Communication base value of process data output 16	1454	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 16. Note: Process data output 16 data display (n1-67) = Process data output 16 (n1-19) x Process data output 16 communication base value (n1-35)/Process data output 16 communication base value/4096 When the communication base value for								

	process data output 16 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-36	Communication base value of process data input 1	1423	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 1. Note: Input process data bus adapter A.PZD1 (U5-44) after base value conversion = Process data input 1 data display (n1-68) x Process data input 1 communication base value (n1-36)/Process data input 1 communication base value/4096 When the communication base value for process data input 1 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-37	Communication base value of process data input 2	1424	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 2. Note: Input process data bus adapter A.PZD2 (U5-45) after base value conversion = Process data input 2 data display (n1-69) x Process data input 2 communication base value (n1-37)/Process data input 2 communication base value/4096 When the communication base value for process data input 2 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-38	Communication base value of process data input 3	1425	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 3. Note: Input process data bus adapter A.PZD3 (U5-46) after base value conversion = Process data input 3 data display (n1-70) x Process data input 3 communication base value (n1-38)/Process data input 3 communication base value/4096 When the communication base value for process data input 3 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-39	Communication base value of process data input 4	1426	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 4. Note: Input process data bus adapter A.PZD4 (U5-47) after base value conversion = Process data input 4 data display (n1-71) x Process data input 4 communication base value (n1-39)/Process data input 4 communication base value/4096 When the communication base value for process data input 4 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-40	Communication base value of process data input 5	1427	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 5. Note: Input process data bus adapter A.PZD5 (U5-48) after base value conversion = Process data input 5 data display (n1-72) x Process data input 5 communication base value (n1-40)/Process data input 5 communication base value/4096 When the communication base value for process data input 5 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-41	Communication base value of process data input 6	1428	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 6. Note: Input process data bus adapter A.PZD6 (U5-49) after base value conversion = Process data input 6 data display (n1-73) x Process data input 6 communication base value (n1-41)/Process data input 6 communication base value/4096 When the communication base value for process data input 6 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Communication base value of process data input 7	1429	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
n1-42	Description: Defines the communication base value of process data input 7. Note: Input process data bus adapter A.PZD7 (U5-50) after base value conversion = Process data input 7 data display (n1-74) x Process data input 7 communication base value (n1-42)/Process data input 7 communication base value/4096 When the communication base value for process data input 7 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of process data input 8	1430	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
n1-43	Description: Defines the communication base value of process data input 8. Note: Input process data bus adapter A.PZD8 (U5-51) after base value conversion = Process data input 8 data display (n1-75) x Process data input 8 communication base value (n1-43)/Process data input 8 communication base value/4096 When the communication base value for process data input 8 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of process data input 9	1431	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
n1-44	Description: Defines the communication base value of process data input 9. Note: Input process data bus adapter A.PZD9 (U5-52) after base value conversion = Process data input 9 data display (n1-76) x Process data input 9 communication base value (n1-44)/Process data input 9 communication base value/4096 When the communication base value for process data input 9 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-45	Communication base value of	1432	0-65535	0	Unsigned	1	Real time	General	Effective in real

	process data input 10				16 bit		changes	user	time
	Description: Defines the communication base value of process data input 10. Note: Input process data bus adapter A.PZD10 (U5-53) after base value conversion = Process data input 10 data display (n1-77) x Process data input 10 communication base value (n1-45)/Process data input 10 communication base value/4096 When the communication base value for process data input 10 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-46	Communication base value of process data input 11	1433	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 11. Note: Input process data bus adapter A.PZD11 (U5-54) after base value conversion = Process data input 11 data display (n1-78) x Process data input 11 communication base value (n1-46)/Process data input 11 communication base value/4096 When the communication base value for process data input 11 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-47	Communication base value of process data input 12	1434	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 12. Note: Input process data bus adapter A.PZD12 (U5-55) after base value conversion = Process data input 12 data display (n1-79) x Process data input 12 communication base value (n1-47)/Process data input 12 communication base value/4096 When the communication base value for process data input 12 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n1-48	Communication base value of process data input 13	1435	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 13. Note: Input process data bus adapter A.PZD13 (U5-56) after base value conversion = Process data input 13 data display (n1-80) x Process data input 13 communication base value (n1-48)/Process data input 13 communication base value/4096 When the communication base value for process data input 13 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-49	Communication base value of process data input 14	1436	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 14. Note: Input process data bus adapter A.PZD14 (U5-57) after base value conversion = Process data input 14 data display (n1-81) x Process data input 14 communication base value (n1-49)/Process data input 14 communication base value/4096 When the communication base value for process data input 14 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-50	Communication base value of process data input 15	1437	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 15. Note: Input process data bus adapter A.PZD15 (U5-58) after base value conversion = Process data input 15 data display (n1-82) x Process data input 15 communication base value (n1-50)/Process data input 15 communication base value/4096 When the communication base value for process data input 15 is 0, base value conversion is not performed.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n1-51	Communication base value of process data input 16	1438	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 16. Note: Input process data bus adapter A.PZD16 (U5-59) after base value conversion = Process data input 16 data display (n1-83) x Process data input 16 communication base value (n1-51)/Process data input 16 communication base value/4096 When the communication base value for process data input 16 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-52	Data display of process data output 1	33823	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 1 data after base value conversion. Note: Process data output 1 data display (n1-52) = Process data output 1 (n1-04) x Process data output 1 communication base value (n1-20)/Process data output 1 communication base value/4096 When the communication base value for process data output 1 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-53	Data display of process data output 2	33824	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 2 after base value conversion. Note: Process data output 2 data display (n1-53) = Process data output 2 (n1-05) x Process data output 2 communication base value (n1-21)/Process data output 2 communication base value/4096 When the communication base value for process data output 2 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n1-54	Data display of process data output 3	33825	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 3 after base value conversion. Note: Process data output 3 data display (n1-54) = Process data output 3 (n1-06) x Process data output 3 communication base value (n1-22)/Process data output 3 communication base value/4096 When the communication base value for process data output 3 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-55	Data display of process data output 4	33826	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 4 after base value conversion. Note: Process data output 4 data display (n1-55) = Process data output 4 (n1-07) x Process data output 4 communication base value (n1-23)/Process data output 4 communication base value/4096 When the communication base value for process data output 4 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-56	Data display of process data output 5	33827	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 5 after base value conversion. Note: Process data output 5 data display (n1-56) = Process data output 5 (n1-08) x Process data output 5 communication base value (n1-24)/Process data output 5 communication base value/4096 When the communication base value for process data output 5 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-57	Data display of process data output	33828	0x0-	0x0	Unsigned	1	Cannot be	General	Effective in real

	6		0xFFFF		16 bit		changed	user	time
	Description: Displays the process data output 6 after base value conversion. Note: Process data output 6 data display (n1-57) = Process data output 6 (n1-09) x Process data output 6 communication base value (n1-25)/Process data output 6 communication base value/4096 When the communication base value for process data output 6 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-58	Data display of process data output 7	33829	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 7 after base value conversion. Note: Process data output 7 data display (n1-58) = Process data output 7 (n1-10) x Process data output 7 communication base value (n1-26)/Process data output 7 communication base value/4096 When the communication base value for process data output 7 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-59	Data display of process data output 8	33830	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 8 after base value conversion. Note: Process data output 8 data display (n1-59) = Process data output 8 (n1-11) x Process data output 8 communication base value (n1-27)/Process data output 8 communication base value/4096 When the communication base value for process data output 8 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-60	Data display of process data output 9	33831	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the process data output 9 after base value conversion. Note: Process data output 9 data display (n1-60) = Process data output 9 (n1-12) x Process data output 9 communication base value (n1-28)/Process data output 9 communication base value/4096 When the communication base value for process data output 9 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-61	Data display of process data output 10	33832	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 10 after base value conversion. Note: Process data output 10 data display (n1-61) = Process data output 10 (n1-13) x Process data output 10 communication base value (n1-29)/Process data output 10 communication base value/4096 When the communication base value for process data output 10 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-62	Data display of process data output 11	33833	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 11 after base value conversion. Note: Process data output 11 data display (n1-62) = Process data output 11 (n1-14) x Process data output 11 communication base value (n1-30)/Process data output 11 communication base value/4096 When the communication base value for process data output 11 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-63	Data display of process data output 12	33834	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 12 after base value conversion.								

	Note: Process data output 12 data display (n1-63) = Process data output 12 (n1-15) x Process data output 12 communication base value (n1-31)/Process data output 12 communication base value/4096 When the communication base value for process data output 12 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-64	Data display of process data output 13	33835	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 13 after base value conversion. Note: Process data output 13 data display (n1-64) = Process data output 13 (n1-16) x Process data output 13 communication base value (n1-32)/Process data output 13 communication base value/4096 When the communication base value for process data output 13 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-65	Data display of process data output 14	33836	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 14 after base value conversion. Note: Process data output 14 data display (n1-65) = Process data output 14 (n1-17) x Process data output 14 communication base value (n1-33)/Process data output 14 communication base value/4096 When the communication base value for process data output 14 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-66	Data display of process data output 15	33837	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 15 after base value conversion. Note:								

	Process data output 15 data display (n1-66) = Process data output 15 (n1-18) x Process data output 15 communication base value (n1-34)/Process data output 15 communication base value/4096 When the communication base value for process data output 15 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-67	Data display of process data output 16	33838	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 16 after base value conversion. Note: Process data output 16 data display (n1-67) = Process data output 16 (n1-19) x Process data output 16 communication base value (n1-35)/Process data output 16 communication base value/4096 When the communication base value for process data output 16 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-68	Data display of process data input 1	33807	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 1. Note: After the received data is converted based on the base value (n1-36), it can be monitored through bus adapter A.PZD1 (U5-44).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-69	Data display of process data input 2	33808	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 2. Note: After the received data is converted based on the base value (n1-37), it can be monitored through bus adapter A.PZD2 (U5-45).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-70	Data display of process data input 3	33809	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 3. Note: After the received data is converted based on the base value (n1-38), it can be monitored through bus adapter A.PZD3 (U5-46).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-71	Data display of process data input 4	33810	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 4. Note: After the received data is converted based on the base value (n1-39), it can be monitored through bus adapter A.PZD4 (U5-47).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-72	Data display of process data input 5	33811	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 5. Note: After the received data is converted based on the base value (n1-40), it can be monitored through bus adapter A.PZD5 (U5-48).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-73	Data display of process data input 6	33812	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real

									time
	Description: Displays the original data of current process data input 6. Note: After the received data is converted based on the base value (n1-41), it can be monitored through bus adapter A.PZD6 (U5-49).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-74	Data display of process data input 7	33813	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 7. Note: After the received data is converted based on the base value (n1-42), it can be monitored through bus adapter A.PZD7 (U5-50).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-75	Data display of process data input 8	33814	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 8. Note: After the received data is converted based on the base value (n1-43), it can be monitored through bus adapter A.PZD8 (U5-51).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-76	Data display of process data input 9	33815	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 9.								

	Note: After the received data is converted based on the base value (n1-44), it can be monitored through bus adapter A.PZD9 (U5-52).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-77	Data display of process data input 10	33816	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 10. Note: After the received data is converted based on the base value (n1-45), it can be monitored through bus adapter A.PZD10 (U5-53).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-78	Data display of process data input 11	33817	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 11. Note: After the received data is converted based on the base value (n1-46), it can be monitored through bus adapter A.PZD11 (U5-54).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-79	Data display of process data input 12	33818	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 12. Note: After the received data is converted based on the base value (n1-47), it can be monitored through bus adapter A.PZD12 (U5-55).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n1-80	Data display of process data input 13	33819	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 13. Note: After the received data is converted based on the base value (n1-48), it can be monitored through bus adapter A.PZD13 (U5-56).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-81	Data display of process data input 14	33820	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 14. Note: After the received data is converted based on the base value (n1-49), it can be monitored through bus adapter A.PZD14 (U5-57).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-82	Data display of process data input 15	33821	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 15. Note: After the received data is converted based on the base value (n1-50), it can be monitored through bus adapter A.PZD15 (U5-58).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-83	Data display of process data input 16	33822	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Description：

Displays the original data of current process data input 16.

Note:

After the received data is converted based on the base value (n1-51), it can be monitored through bus adapter A.PZD16 (U5-59).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-84	Effective PZD of adapter A output	36687	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value：

Bit	Name	Value
bit0	PZD1 output (n1-04)	0: Invalid 1: Valid
bit1	PZD2 output (n1-05)	0: Invalid 1: Valid
bit2	PZD3 output (n1-06)	0: Invalid 1: Valid
bit3	PZD4 output (n1-07)	0: Invalid 1: Valid
bit4-	PZD5 output (n1-08)	0: Invalid 1: Valid
bit5	PZD6 output (n1-09)	0: Invalid 1: Valid
bit6	PZD7 output (n1-10)	0: Invalid 1: Valid
bit7	PZD8 output (n1-11)	0: Invalid 1: Valid
bit8	PZD9 output (n1-12)	0: Invalid 1: Valid
bit9	PZD10 output (n1-13)	0: Invalid 1: Valid
bit10-	PZD11 output (n1-14)	0: Invalid 1: Valid
bit11	PZD12 output (n1-15)	0: Invalid 1: Valid
bit12	PZD13 output (n1-16)	0: Invalid 1: Valid

bit13-	PZD14 output (n1-17)	0: Invalid 1: Valid	
bit14	PZD15 output (n1-18)	0: Valid 1: Active	
bit15	PZD16 output (n1-19)	0: Invalid 1: Valid	

Description:

Displays the active state of single word process data output of current adapter A.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-85	Effective double word PZD of adapter A output	36688	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0	PZD1+2 output (n34-02)	0: Invalid 1: Valid
bit1	PZD2+3 output (n34-03)	0: Invalid 1: Valid
bit2	PZD3+4 output (n34-04)	0: Invalid 1: Valid
bit3	PZD4+5 output (n34-05)	0: Invalid 1: Valid
bit4-	PZD5+6 output (n34-06)	0: Invalid 1: Valid
bit5	PZD6+7 output (n34-07)	0: Invalid 1: Valid
bit6	PZD7+8 output (n34-08)	0: Invalid 1: Valid
bit7	PZD8+9 output (n34-09)	0: Invalid 1: Valid
bit8	PZD9+10 output (n34-10)	0: Invalid 1: Valid
bit9	PZD10+11 output (n34-11)	0: Invalid 1: Valid
bit10-	PZD11+12 output (n34-12)	0: Invalid 1: Valid

bit11	PZD12+13 output (n34-13)	0: Invalid 1: Valid	
bit12	PZD13+14 output (n34-14)	0: Invalid 1: Valid	
bit13-	PZD14+15 output (n34-15)	0: Invalid 1: Valid	
bit14	PZD15+16 output (n34-16)	0: Invalid 1: Valid	
Bit15-	Reserved	0: Invalid 1: Valid	

Description:

Displays the active double word PZD combination of bus adapter A.

Note:

The process data is transmitted in single word (16 bits) format. If the host controller needs to receive double word (32 bits) data, bus adapter B can be configured through parameters in group n34. You can monitor through n1-85 (Effective double word PZD of adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-90	Saving mailbox data of adapter A	4189	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Not saved to EEPROM

1: Saved to EEPROM

Description:

Used to set whether adapter A mailbox data is saved to EEPROM.

Note:

If you need to save the modified parameters to EEPROM, confirm whether mailbox data will be written frequently as frequent writing/reading operations on the EEPROM may damage the EEPROM.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-91	Upload prohibition of device diagnosis information for adapter A	1809	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Not inhibited

1: Inhibited

Description:

Used to set whether the upload of diagnostic information on adapter A device is disabled.

Value description:

0: Not inhibited - The current HCU fault codes can be uploaded to the drive.

1: Inhibited - The current HCU fault codes cannot be uploaded to the drive.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-92	High/Low byte conversion switch for process data output of adapter A	7210	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Process data output 1	0: Low byte before high byte 1: High byte before low byte
bit1	Process data output 2	0: Low byte before high byte 1: High byte before low byte
bit2	Process data output 3	0: Low byte before high byte 1: High byte before low byte
bit3	Process data output 4	0: Low byte before high byte 1: High byte before low byte
bit4	Process data output 5	0: Low byte before high byte 1: High byte before low byte
bit5	Process data output 6	0: Low byte before high byte 1: High byte before low byte
bit6	Process data output 7	0: Low byte before high byte 1: High byte before low byte
bit7	Process data output 8	0: Low byte before high byte 1: High byte before low byte
bit8	Process data output 9	0: Low byte before high byte 1: High byte before low byte
bit9	Process data output 10	0: Low byte before high byte 1: High byte before low byte

bit10	Process data output 11	0: Low byte before high byte 1: High byte before low byte	
bit11	Process data output 12	0: Low byte before high byte 1: High byte before low byte	
bit12	Process data output 13	0: Low byte before high byte 1: High byte before low byte	
bit13	Process data output 14	0: Low byte before high byte 1: High byte before low byte	
bit14	Process data output 15	0: Low byte before high byte 1: High byte before low byte	
bit15	Process data output 16	0: Low byte before high byte 1: High byte before low byte	

Description:

Used to set whether high/low byte conversion is performed on the effective PZD data of current adapter A.

Note:

The PZD process data bit is 16 bits, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is outputted as PZD original data.

High/Low byte conversion switches of PZD1 to PZD16 process data output correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-93	High/Low byte conversion switches for process data input of adapter A	7211	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Process data input 1	0: Low byte before high byte 1: High byte before low byte
bit1	Process data input 2	0: Low byte before high byte 1: High byte before low byte
bit2	Process data input 3	0: Low byte before high byte 1: High byte before low byte
bit3	Process data input 4	0: Low byte before high byte 1: High byte before low byte
bit4	Process data input 5	0: Low byte before high byte 1: High byte before low byte

bit5	Process data input 6	0: Low byte before high byte 1: High byte before low byte
bit6	Process data input 7	0: Low byte before high byte 1: High byte before low byte
bit7	Process data input 8	0: Low byte before high byte 1: High byte before low byte
bit8	Process data input 9	0: Low byte before high byte 1: High byte before low byte
bit9	Process data input 10	0: Low byte before high byte 1: High byte before low byte
bit10	Process data input 11	0: Low byte before high byte 1: High byte before low byte
bit11	Process data input 12	0: Low byte before high byte 1: High byte before low byte
bit12	Process data input 13	0: Low byte before high byte 1: High byte before low byte
bit13	Process data input 14	0: Low byte before high byte 1: High byte before low byte
bit14	Process data input 15	0: Low byte before high byte 1: High byte before low byte
bit15	Process data input 16	0: Low byte before high byte 1: High byte before low byte

Description:

Defines whether to perform high/low byte conversion on the effective PZD data of adapter A.

Note:

The process data received by PZD is 16-bit, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is inputted as PZD original data.

PZD1 to PZD16 process data input high/low byte conversion switches correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n1-94	Adapter A mailbox data function switch	7428	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Processing mode for reading double-word parameters	0: Read by single word 1: Read by double word

bit1	Processing mode for writing double-word parameters	0: Write by single word 1: Write by double word
bit2	Reserved	0: Invalid
bit3	Return sequence of high/low words of double word parameters	0: High word before low word 1: Low word before high word
bit4	Reserved	0: Invalid
bit5	Writing sequence of high/low words of double word parameters	0: High word before low word 1: Low word before high word
bit6	Reserved	0: Invalid
bit7	Reserved	0: Invalid
bit8	Reserved	0: Invalid
bit9	Reserved	0: Invalid
Bit10	Reserved	0: Invalid
bit11	Reserved	0: Invalid
bit12	Reserved	0: Invalid
bit13	Reserved	0: Invalid
bit14	Reserved	0: Invalid
bit15	Reserved	0: Invalid

Description：

Defines the mailbox data function switch of adapter A.

Value description:

bit0: Processing mode for reading double-word parameters

0: Read by single word

1: Read by double word

bit1: Processing mode for writing double-word parameters

0: Write by single word

1: Write by double word

bit2: Reserved

0: Invalid

bit3: Return sequence of high/low words of double word parameters

0: High word before low word

1: Low word before high word

bit4: Reserved

0: Invalid

bit5: Writing sequence of high/low words of double word parameters

0: High word before low word

1: Low word before high word

bit6: Reserved

0: Invalid

	bit7: Reserved 0: Invalid bit8: Reserved 0: Invalid bit9: Reserved 0: Invalid Bit10: Reserved 0: Invalid bit11: Reserved 0: Invalid bit12: Reserved 0: Invalid bit13: Reserved 0: Invalid bit14: Reserved 0: Invalid bit15: Reserved 0: Invalid

n2 Fieldbus adapter B

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-00	Bus type for bus adapter B	1455	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: None 1: Modbus-RTU module 2: Reserved 3: CANopen module 5: EtherCAT module 6: HDVN module 7: PROFIBUS-DP module 8: ProfiNet I/O module 9: Custom communication module 12: EtherNet/IP module								
	Description: Defines the communication bus type of bus adapter B. Note: The fieldbus adapter is used for communication between the fieldbus and the drive. It supports a variety of external communication modules. The fieldbus adapter provides 16 input and output process data (n2-04 to n2-83). Each process data channel can be set with a custom base value (n2-20 to n2-51) to achieve the conversion ratio of data received and data sent by the fieldbus adapter.								

	The communication fault detection mode can be set through the bus adapter communication mode selection (n2-02). The communication disconnection detection delay (n2-01) and communication continuous CRC check error detection (n2-03) can be used to set disconnection detection error and CRC detection error. The single word process data of the fieldbus adapter can be used to enable double word data interaction (n35 to n36) in the form of combination of two single words.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-01	Disconnection detection delay of bus adapter B	1456	0.00-60.00	0.10	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the disconnection detection delay of bus adapter B. Note: When the communication mode of the bus adapter (n2-02) is the standard mode, F68-1 (External bus of adapter B timeout) is triggered when the external bus is disconnected during communication for a period longer than the time set by n2-01. If the disconnection state persists, A156-2 (Communication error between bus adapter B and host controller) is triggered. When this parameter is set to 0, this fault is not detected.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-02	Communication mode selection for bus adapter B	3908	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Standard mode 1: No fault prompt mode Others: B connector								
	Description: Defines the communication mode of the bus adapter. Value description: 0: Standard fault - The fault is triggered when external bus communication is abnormal. 1: No fault prompt mode - All communication-related faults are not reported. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n2-03	Continuous CRC error detection setting	1458	0-5000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines continuous CRC error detection. Note: The setpoint 0 indicates detection is inactive. When the communication mode of the bus adapter (n2-02) is set to the standard mode, F68-15 (Received data check error of communication card of adapter B)/F68-16 (Transmission data check error of communication card of adapter B) is triggered when the value of this parameter is exceeded.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-04	Process data output 1	1459	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 1. Note: Displayed data of process data output 1 (n2-52) = Process data output 1 (n2-04) x Communication base value of process data output 1 (n2-20)/4096 When the communication base value for process data output 1 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-05	Process data output 2	1460	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 2.								

	Note: Displayed data of process data output 2 (n2-53) = Process data output 2 (n2-05) x Communication base value of process data output 2 (n2-21)/4096 When the communication base value for process data output 2 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-06	Process data output 3	1461	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 3. Note: Displayed data of process data output 3 (n2-54) = Process data output 3 (n2-06) x Communication base value of process data output 3 (n2-22)/4096 When the communication base value for process data output 3 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-07	Process data output 4	1462	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 4. Note: Displayed data of process data output 4 (n2-55) = Process data output 4 (n2-07) x Communication base value of process data output 4 (n2-23)/4096 When the communication base value for process data output 4 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n2-08	Process data output 5	1463	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 5. Note: Displayed data of process data output 5 (n2-56) = Process data output 5 (n2-08) x Communication base value of process data output 5 (n2-24)/4096 When the communication base value for process data output 5 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-09	Process data output 6	1464	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 6. Note: Displayed data of process data output 6 (n2-57) = Process data output 6 (n2-09) x Communication base value of process data output 6 (n2-25)/4096 When the communication base value for process data output 6 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-10	Process data output 7	1465	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description： Defines process data output 7. Note: Displayed data of process data output 7 (n2-58) = Process data output 7 (n2-10) x Communication base value of process data output 7 (n2-26)/4096 When the communication base value for process data output 7 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-11	Process data output 8	1466	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines process data output 8. Note: Displayed data of process data output 8 (n2-59) = Process data output 8 (n2-11) x Communication base value of process data output 8 (n2-27)/4096 When the communication base value for process data output 8 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-12	Process data output 9	1467	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines process data output 9. Note: Displayed data of process data output 9 (n2-60) = Process data output 9 (n2-12) x Communication base value of process data output 9 (n2-28)/4096 When the communication base value for process data output 9 is 0, base value conversion is not performed.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n2-13	Process data output 10	1468	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 10. Note: Displayed data of process data output 10 (n2-61) = Process data output 10 (n2-13) x Communication base value of process data output 10 (n2-29)/4096 When the communication base value for process data output 10 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-14	Process data output 11	1469	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 11. Note: Displayed data of process data output 11 (n2-62) = Process data output 11 (n2-14) x Communication base value of process data output 11 (n2-30)/4096 When the communication base value for process data output 11 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-15	Process data output 12	1470	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector
	Description： Defines process data output 12. Note: Displayed data of process data output 12 (n2-63) = Process data output 12 (n2-15) x Communication base value of process data output 12 (n2-31)/4096 When the communication base value for process data output 12 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-16	Process data output 13	1471	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 13. Note: Displayed data of process data output 13 (n2-64) = Process data output 13 (n2-16) x Communication base value of process data output 13 (n2-32)/4096 When the communication base value for process data output 13 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-17	Process data output 14	1472	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 14. Note: Displayed data of process data output 14 (n2-65) = Process data output 14 (n2-17) x Communication base value of process data output 14 (n2-33)/4096 When the communication base value for process data output 14 is 0, base value conversion is								

	not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-18	Process data output 15	1473	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 15. Note: Displayed data of process data output 15 (n2-66) = Process data output 15 (n2-18) x Communication base value of process data output 15 (n2-34)/4096 When the communication base value for process data output 15 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-19	Process data output 16	1474	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 16. Note: Displayed data of process data output 16 (n2-67) = Process data output 16 (n2-19) x Communication base value of process data output 16 (n2-35)/4096 When the communication base value for process data output 16 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-20	Communication base value of process data output 1	1491	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines communication base value of process data output 1. Note: Displayed data of process data output 1 (n2-52) = Process data output 1 (n2-04) x Communication base value of process data output 1 (n2-20)/4096 When the communication base value for process data output 1 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-21	Communication base value of process data output 2	1492	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 2. Note: Displayed data of process data output 2 (n2-53) = Process data output 2 (n2-05) x Communication base value of process data output 2 (n2-21)/4096 When the communication base value for process data output 2 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-22	Communication base value of process data output 3	1493	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 3. Note: Displayed data of process data output 3 (n2-54) = Process data output 3 (n2-06) x Communication base value of process data output 3 (n2-22)/4096 When the communication base value for process data output 3 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-23	Communication base value of process data output 4	1494	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 4.								

	Note: Displayed data of process data output 4 (n2-55) = Process data output 4 (n2-07) x Communication base value of process data output 4 (n2-23)/4096 When the communication base value for process data output 4 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-24	Communication base value of process data output 5	1495	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 5. Note: Displayed data of process data output 5 (n2-56) = Process data output 5 (n2-08) x Communication base value of process data output 5 (n2-24)/4096 When the communication base value for process data output 5 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-25	Communication base value of process data output 6	1496	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 6. Note: Displayed data of process data output 6 (n2-57) = Process data output 6 (n2-09) x Communication base value of process data output 6 (n2-25)/4096 When the communication base value for process data output 6 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-26	Communication base value of process data output 7	1497	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 7. Note:								

	Displayed data of process data output 7 (n2-58) = Process data output 7 (n2-10) x Communication base value of process data output 7 (n2-26)/4096 When the communication base value for process data output 7 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-27	Communication base value of process data output 8	1498	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 8. Note: Displayed data of process data output 8 (n2-59) = Process data output 8 (n2-11) x Communication base value of process data output 8 (n2-27)/4096 When the communication base value for process data output 8 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-28	Communication base value of process data output 9	1499	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 9. Note: Displayed data of process data output 9 (n2-60) = Process data output 9 (n2-12) x Communication base value of process data output 9 (n2-28)/4096 When the communication base value for process data output 9 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-29	Communication base value of process data output 10	1500	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 10. Note: Displayed data of process data output 10 (n2-61) = Process data output 10 (n2-13) x Communication base value of process data output 10 (n2-29)/4096 When the communication base value for process data output 10 is 0, base value conversion is								

	not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-30	Communication base value of process data output 11	1501	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 11. Note: Displayed data of process data output 11 (n2-62) = Process data output 11 (n2-14) x Communication base value of process data output 11 (n2-30)/4096 When the communication base value for process data output 11 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-31	Communication base value of process data output 12	1502	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 12. Note: Displayed data of process data output 12 (n2-63) = Process data output 12 (n2-15) x Communication base value of process data output 12 (n2-31)/4096 When the communication base value for process data output 12 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-32	Communication base value of process data output 13	1503	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 13. Note: Displayed data of process data output 13 (n2-64) = Process data output 13 (n2-16) x Communication base value of process data output 13 (n2-32)/4096 When the communication base value for process data output 13 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-33	Communication base value of process data output 14	1504	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 14. Note: Displayed data of process data output 14 (n2-65) = Process data output 14 (n2-17) x Communication base value of process data output 14 (n2-33)/4096 When the communication base value for process data output 14 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-34	Communication base value of process data output 15	1505	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 15. Note: Displayed data of process data output 15 (n2-66) = Process data output 15 (n2-18) x Communication base value of process data output 15 (n2-34)/4096 When the communication base value for process data output 15 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-35	Communication base value of process data output 16	1506	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 16. Note: Displayed data of process data output 16 (n2-67) = Process data output 16 (n2-19) x Communication base value of process data output 16 (n2-35)/4096 When the communication base value for process data output 16 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n2-36	Communication base value of process data input 1	1475	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 1. Note: PZD1 process data input of bus adapter B (U5-60) after base value conversion = Displayed data of process data input 1 (n2-68) x Communication base value of process data input 1 (n2-36)/4096 When the communication base value for process data input 1 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-37	Communication base value of process data input 2	1476	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 2. Note: PZD2 process data input of bus adapter B (U5-61) after base value conversion = Displayed data of process data input 2 (n2-69) x Communication base value of process data input 2 (n2-36)/4096 When the communication base value for process data input 2 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-38	Communication base value of process data input 3	1477	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 3. Note: PZD3 process data input of bus adapter B (U5-62) after base value conversion = Displayed data of process data input 3 (n2-70) x Communication base value of process data input 3 (n2-38)/4096 When the communication base value for process data input 3 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-39	Communication base value of process data	1478	0-65535	0	Unsigned	1	Real time	General	Effective in real

	input 4				16 bit		changes	user	time
	Description: Defines the communication base value of process data input 4. Note: PZD4 process data input of bus adapter B (U5-63) after base value conversion = Displayed data of process data input 4 (n2-71) x Communication base value of process data input 4 (n2-39)/4096 When the communication base value for process data input 4 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-40	Communication base value of process data input 5	1479	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 5. Note: PZD5 process data input of bus adapter B (U5-64) after base value conversion = Displayed data of process data input 5 (n2-72) x Communication base value of process data input 5 (n2-40)/4096 When the communication base value for process data input 5 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-41	Communication base value of process data input 6	1480	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 6. Note: PZD6 process data input of bus adapter B (U5-65) after base value conversion = Displayed data of process data input 6 (n2-73) x Communication base value of process data input 6 (n2-41)/4096 When the communication base value for process data input 6 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-42	Communication base value of process data input 7	1481	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the communication base value of process data input 7. Note: PZD7 process data input of bus adapter B (U5-66) after base value conversion = Displayed data of process data input 7 (n2-74) x Communication base value of process data input 7 (n2-42)/4096 When the communication base value for process data input 7 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-43	Communication base value of process data input 8	1482	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 8. Note: PZD8 process data input of bus adapter B (U5-67) after base value conversion = Displayed data of process data input 8 (n2-75) x Communication base value of process data input 8 (n2-43)/4096 When the communication base value for process data input 8 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-44	Communication base value of process data input 9	1483	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 9. Note: PZD9 process data input of bus adapter B (U5-68) after base value conversion = Displayed data of process data input 9 (n2-76) x Communication base value of process data input 9 (n2-44)/4096 When the communication base value for process data input 9 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-45	Communication base value of process data input 10	1484	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 10.								

	Note: PZD10 process data input of bus adapter B (U5-69) after base value conversion = Displayed data of process data input 10 (n2-77) x Communication base value of process data input 10 (n2-45)/4096 When the communication base value for process data input 10 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-46	Communication base value of process data input 11	1485	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 11. Note: PZD11 process data input of bus adapter B (U5-70) after base value conversion = Displayed data of process data input 11 (n2-78) x Communication base value of process data input 11 (n2-46)/4096 When the communication base value for process data input 11 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-47	Communication base value of process data input 12	1486	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 12. Note: PZD12 process data input of bus adapter B (U5-71) after base value conversion = Displayed data of process data input 12 (n2-79) x Communication base value of process data input 12 (n2-47)/4096 When the communication base value for process data input 12 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-48	Communication base value of process data input 13	1487	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 13. Note:								

	PZD13 process data input of bus adapter B (U5-72) after base value conversion = Displayed data of process data input 13 (n2-80) x Communication base value of process data input 13 (n2-48)/4096 When the communication base value for process data input 13 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-49	Communication base value of process data input 14	1488	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 14. Note: PZD14 process data input of bus adapter B (U5-73) after base value conversion = Displayed data of process data input 14 (n2-81) x Communication base value of process data input 14 (n2-49)/4096 When the communication base value for process data input 14 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-50	Communication base value of process data input 15	1489	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 15. Note: PZD15 process data input of bus adapter B (U5-74) after base value conversion = Displayed data of process data input 15 (n2-82) x Communication base value of process data input 15 (n2-50)/4096 When the communication base value for process data input 15 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-51	Communication base value of process data input 16	1490	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 16. Note: PZD16 process data input of bus adapter B (U5-75) after base value conversion = Displayed data of process data input 16 (n2-83) x Communication base value of process data input 16 (n2-51)/4096 When the communication base value for								

	process data input 16 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-52	Data display of process data output 1	33855	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 1 after base value conversion. Note: Displayed data of process data output 1 (n2-52) = Process data output 1 (n2-04) x Communication base value of process data output 1 (n2-20)/4096 When the communication base value for process data output 1 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-53	Data display of process data output 2	33856	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 2 after base value conversion. Note: Displayed data of process data output 2 (n2-53) = Process data output 2 (n2-05) x Communication base value of process data output 2 (n2-21)/4096 When the communication base value for process data output 2 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-54	Data display of process data output 3	33857	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 3 after base value conversion. Note: Displayed data of process data output 3 (n2-54) = Process data output 3 (n2-06) x Communication base value of process data output 3 (n2-22)/4096 When the communication base value for process data output 3 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-55	Data display of process data output 4	33858	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 4 after base value conversion. Note: Displayed data of process data output 4 (n2-55) = Process data output 4 (n2-07) x Communication base value of process data output 4 (n2-23)/4096 When the communication base value for process data output 4 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-56	Data display of process data output 5	33859	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 5 after base value conversion. Note: Displayed data of process data output 5 (n2-56) = Process data output 5 (n2-08) x Communication base value of process data output 5 (n2-24)/4096 When the communication base value for process data output 5 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-57	Data display of process data output 6	33860	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 6 after base value conversion. Note: Displayed data of process data output 6 (n2-57) = Process data output 6 (n2-09) x Communication base value of process data output 6 (n2-25)/4096 When the communication base value for process data output 6 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n2-58	Data display of process data output 7	33861	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 7 after base value conversion. Note: Displayed data of process data output 7 (n2-58) = Process data output 7 (n2-10) x Communication base value of process data output 7 (n2-26)/4096 When the communication base value for process data output 7 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-59	Data display of process data output 8	33862	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 8 after base value conversion. Note: Displayed data of process data output 8 (n2-59) = Process data output 8 (n2-11) x Communication base value of process data output 8 (n2-27)/4096 When the communication base value for process data output 8 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-60	Data display of process data output 9	33863	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 9 after base value conversion. Note: Displayed data of process data output 9 (n2-60) = Process data output 9 (n2-12) x Communication base value of process data output 9 (n2-28)/4096 When the communication base value for process data output 9 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-61	Data display of process data output	33864	0x0-	0x0	Unsigned	1	Cannot be	General	Effective in real

	10		0xFFFF		16 bit		changed	user	time
	Description: Displays the process data output 10 after base value conversion. Note: Displayed data of process data output 10 (n2-61) = Process data output 10 (n2-13) x Communication base value of process data output 10 (n2-29)/4096 When the communication base value for process data output 10 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-62	Data display of process data output 11	33865	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 11 after base value conversion. Note: Displayed data of process data output 11 (n2-62) = Process data output 11 (n2-14) x Communication base value of process data output 11 (n2-30)/4096 When the communication base value for process data output 11 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-63	Data display of process data output 12	33866	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 12 after base value conversion. Note: Displayed data of process data output 12 (n2-63) = Process data output 12 (n2-15) x Communication base value of process data output 12 (n2-31)/4096 When the communication base value for process data output 12 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-64	Data display of process data output 13	33867	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the process data output 13 after base value conversion. Note: Displayed data of process data output 13 (n2-64) = Process data output 13 (n2-16) x Communication base value of process data output 13 (n2-32)/4096 When the communication base value for process data output 13 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-65	Data display of process data output 14	33868	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 14 after base value conversion. Note: Displayed data of process data output 14 (n2-65) = Process data output 14 (n2-17) x Communication base value of process data output 14 (n2-33)/4096 When the communication base value for process data output 14 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-66	Data display of process data output 15	33869	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 15 after base value conversion. Note: Displayed data of process data output 15 (n2-66) = Process data output 15 (n2-18) x Communication base value of process data output 15 (n2-34)/4096 When the communication base value for process data output 15 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-67	Data display of process data output 16	33870	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 16 after base value conversion.								

	Note: Displayed data of process data output 16 (n2-67) = Process data output 16 (n2-19) x Communication base value of process data output 16 (n2-35)/4096 When the communication base value for process data output 16 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-68	Data display of process data input 1	33839	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 1. Note: After the received data is converted based on the base value (n2-36), it can be monitored through PZD1 of bus adapter B (U5-44).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-69	Data display of process data input 2	33840	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 2. Note: After the received data is converted based on the base value (n2-37), it can be monitored through PZD2 of bus adapter B (U5-45).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-70	Data display of process data input 3	33841	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 3. Note: After the received data is converted based on the base value (n2-38), it can be monitored through PZD3 of bus adapter B								

	(U5-46).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-71	Data display of process data input 4	33842	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 4. Note: After the received data is converted based on the base value (n2-39), it can be monitored through PZD4 of bus adapter B (U5-47).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-72	Data display of process data input 5	33843	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 5. Note: After the received data is converted based on the base value (n2-40), it can be monitored through PZD5 of bus adapter B (U5-48).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-73	Data display of process data input 6	33844	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 6. Note: After the received data is converted based on the base value (n2-41), it can be monitored through PZD6 of bus adapter B (U5-49).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n2-74	Data display of process data input 7	33845	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 7. Note: After the received data is converted based on the base value (n2-42), it can be monitored through PZD7 of bus adapter B (U5-50).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-75	Data display of process data input 8	33846	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 8. Note: After the received data is converted based on the base value (n2-43), it can be monitored through PZD8 of bus adapter B (U5-51).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-76	Data display of process data input 9	33847	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 9. Note: After the received data is converted based on the base value (n2-44), it can be monitored through PZD9 of bus adapter B (U5-52).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-77	Data display of process data input 10	33848	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the original data of current process data input 10. Note: After the received data is converted based on the base value (n2-45), it can be monitored through PZD10 of bus adapter B (U5-53).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-78	Data display of process data input 11	33849	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 11. Note: After the received data is converted based on the base value (n2-46), it can be monitored through PZD11 of bus adapter B (U5-54).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-79	Data display of process data input 12	33850	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 12. Note: After the received data is converted based on the base value (n2-47), it can be monitored through PZD12 of bus adapter B (U5-55).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-80	Data display of process data input 13	33851	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 13. Note: After the received data is converted based on the base value (n2-48), it can be monitored through PZD13 of bus adapter B								

	(U5-56).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-81	Data display of process data input 14	33852	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 14. Note: After the received data is converted based on the base value (n2-49), it can be monitored through PZD14 of bus adapter B (U5-57).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-82	Data display of process data input 15	33853	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 15. Note: After the received data is converted based on the base value (n2-50), it can be monitored through PZD15 of bus adapter B (U5-58).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-83	Data display of process data input 16	33854	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 16. Note: After the received data is converted based on the base value (n2-51), it can be monitored through PZD16 of bus adapter B (U5-59).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n2-84	Effective PZD of adapter B output	36689	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0	PZD1 output (n2-04)	0: Invalid 1: Valid
bit1	PZD2 output (n2-05)	0: Invalid 1: Valid
bit2	PZD3 output (n2-06)	0: Invalid 1: Valid
bit3	PZD4 output (n2-07)	0: Invalid 1: Valid
bit4-	PZD5 output (n2-08)	0: Invalid 1: Valid
bit5	PZD6 output (n2-09)	0: Invalid 1: Valid
bit6	PZD7 output (n2-10)	0: Invalid 1: Valid
bit7	PZD8 output (n2-11)	0: Invalid 1: Valid
bit8	PZD9 output (n2-12)	0: Invalid 1: Valid
bit9	PZD10 output (n2-13)	0: Invalid 1: Valid
bit10-	PZD11 output (n2-14)	0: Invalid 1: Valid
bit11	PZD12 output (n2-15)	0: Invalid 1: Valid
bit12	PZD13 output (n2-16)	0: Invalid 1: Valid
bit13-	PZD14 output (n2-17)	0: Invalid 1: Valid
bit14	PZD15 output (n2-18)	0: Valid 1: Active
bit15	PZD16 output (n2-19)	0: Invalid 1: Valid

Description:

Displays the active state of single-word process data output of current adapter B.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-85	Effective double word PZD of adapter B output	36690	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0	PZD1+2 output (n36-02)	0: Invalid 1: Valid
bit1	PZD2+3 output (n36-03)	0: Invalid 1: Valid
bit2	PZD3+4 output (n36-04)	0: Invalid 1: Valid
bit3	PZD4+5 output (n36-05)	0: Invalid 1: Valid
bit4-	PZD5+6 output (n36-06)	0: Invalid 1: Valid
bit5	PZD6+7 output (n36-07)	0: Invalid 1: Valid
bit6	PZD7+8 output (n36-08)	0: Invalid 1: Valid
bit7	PZD8+9 output (n36-09)	0: Invalid 1: Valid
bit8	PZD9+10 output (n36-10)	0: Invalid 1: Valid
bit9	PZD10+11 output (n36-11)	0: Invalid 1: Valid
bit10-	PZD11+12 output (n36-12)	0: Invalid 1: Valid
bit11	PZD12+13 output (n36-13)	0: Invalid 1: Valid
bit12	PZD13+14 output (n36-14)	0: Invalid 1: Valid
bit13-	PZD14+15 output (n36-15)	0: Invalid 1: Valid
bit14	PZD15+16 output (n36-16)	0: Invalid 1: Valid
Bit15-	Reserved	0: Invalid 1: Valid

	Description： Displays the active double word PZD combination of bus adapter A. Note: Because process data is transmitted in single word (16 bits) format, bus adapter B can be configured through group n36 if the host controller needs to receive double word (32 bits) data. You can monitor through n2-85 (Effective double word PZD of adapter B).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-90	Adapter B mail box write data save selection	4190	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Not saved to EEPROM 1： Saved to EEPROM								
	Description： Used to set whether adapter B mailbox data is saved to EEPROM. Note: If you need to save the modified parameters to EEPROM, confirm whether mailbox data will be written frequently as frequent writing/reading operations on the EEPROM may damage the EEPROM.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-91	Upload prohibition of device diagnosis information for adapter B	1808	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Not inhibited 1： Inhibited								
	Description： Used to set whether the upload of diagnostic information on adapter B device is disabled. Value description: 0: Not inhibited - The current HCU fault codes can be uploaded to the drive. 1: Inhibited - The current HCU fault codes cannot be uploaded to the drive.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n2-92	High/Low byte conversion switch for process data output of adapter B	7212	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Process data output 1	0: Low byte before high byte 1: High byte before low byte
bit1	Process data output 2	0: Low byte before high byte 1: High byte before low byte
bit2	Process data output 3	0: Low byte before high byte 1: High byte before low byte
bit3	Process data output 4	0: Low byte before high byte 1: High byte before low byte
bit4	Process data output 5	0: Low byte before high byte 1: High byte before low byte
bit5	Process data output 6	0: Low byte before high byte 1: High byte before low byte
bit6	Process data output 7	0: Low byte before high byte 1: High byte before low byte
bit7	Process data output 8	0: Low byte before high byte 1: High byte before low byte
bit8	Process data output 9	0: Low byte before high byte 1: High byte before low byte
bit9	Process data output 10	0: Low byte before high byte 1: High byte before low byte
bit10	Process data output 11	0: Low byte before high byte 1: High byte before low byte
bit11	Process data output 12	0: Low byte before high byte 1: High byte before low byte
bit12	Process data output 13	0: Low byte before high byte 1: High byte before low byte
bit13	Process data output 14	0: Low byte before high byte 1: High byte before low byte
bit14	Process data output 15	0: Low byte before high byte 1: High byte before low byte
bit15	Process data output 16	0: Low byte before high byte 1: High byte before low byte

Description:

Used to set whether high/low byte conversion is performed on the effective PZD data of current adapter B.

Note:

The PZD process data bit is 16 bits, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is outputted as PZD original data.

High/Low byte conversion switches of PZD1 to PZD16 process data output correspond to Bit0 to Bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-93	High/Low byte conversion switch for process data input of adapter B	7213	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Process data input 1	0: Low byte before high byte 1: High byte before low byte
bit1	Process data input 2	0: Low byte before high byte 1: High byte before low byte
bit2	Process data input 3	0: Low byte before high byte 1: High byte before low byte
bit3	Process data input 4	0: Low byte before high byte 1: High byte before low byte
bit4	Process data input 5	0: Low byte before high byte 1: High byte before low byte
bit5	Process data input 6	0: Low byte before high byte 1: High byte before low byte
bit6	Process data input 7	0: Low byte before high byte 1: High byte before low byte
bit7	Process data input 8	0: Low byte before high byte 1: High byte before low byte
bit8	Process data input 9	0: Low byte before high byte 1: High byte before low byte
bit9	Process data input 10	0: Low byte before high byte 1: High byte before low byte
bit10	Process data input 11	0: Low byte before high byte 1: High byte before low byte
bit11	Process data input 12	0: Low byte before high byte 1: High byte before low byte

bit12	Process data input 13	0: Low byte before high byte 1: High byte before low byte	
bit13	Process data input 14	0: Low byte before high byte 1: High byte before low byte	
bit14	Process data input 15	0: Low byte before high byte 1: High byte before low byte	
bit15	Process data input 16	0: Low byte before high byte 1: High byte before low byte	

Description:

Used to set whether high/low byte conversion is performed on the effective PZD data of current adapter B.

Note:

The process data received by PZD is 16-bit, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is inputted as PZD original data.

PZD1 to PZD16 process data input high/low byte conversion switches correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n2-94	Adapter B mailbox data function switch	7429	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Processing mode for reading double-word parameters	0: Read by single word 1: Read by double word
bit1	Processing mode for writing double-word parameters	0: Write by single word 1: Write by double word
bit2	Reserved	0: Invalid
bit3	Return sequence of high/low words of double word parameters	0: High word before low word 1: Low word before high word
bit4	Reserved	0: Invalid
bit5	Writing sequence of high/low words of double word parameters	0: High word before low word 1: Low word before high word
bit6	Reserved	0: Invalid
bit7	Reserved	0: Invalid
bit8	Reserved	0: Invalid
bit9	Reserved	0: Invalid
Bit10	Reserved	0: Invalid
bit11	Reserved	0: Invalid

bit12	Reserved	0: Invalid
bit13	Reserved	0: Invalid
bit14	Reserved	0: Invalid
bit15	Reserved	0: Invalid

n3 Fieldbus adapter C

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n3-00	Bus adapter C function selection	1507	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Bind HETN-10								
	Description: Defines the function of bus adapter C. Note: HETN-10 is used for commissioning of bus adapter C.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n3-03	Adapter C mail box write data save selection	4191	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not saved to EEPROM 1: Saved to EEPROM								
	Description: Defines whether to save the mailbox data of adapter C. Note: If you need to save the modified parameters to EEPROM, confirm whether mailbox data will be written frequently as frequent writing/reading operations on the EEPROM may damage the EEPROM.								

n4 Encoder detection module 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n4-00	Expansion slot selection	1509	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Used to select the expansion module slot.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-01	Module online state	32825	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the module online state. Note: When n4-00 and n4-02 are configured correctly, this parameter should display the setpoint 1 (Online).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-02	Encoder type	1512	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Invalid 1: Regular ABZ encoder 2: Sin-cos encoder 3: Resolver								
	Description: Defines the encoder type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-03	Input A/B phase sequence	1515	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

	0：Forward 1：Reverse
	Description： Defines the input A/B phase sequence. Note: If the encoder speed measurement is opposite to the selected motor direction, modify this parameter to adjust the speed measurement direction.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-04	Speed measurement mode	1518	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Quadruple frequency multiplication 1：Fundamental frequency 2：Quick speed measurement								
	Description： Defines the encoder speed measurement mode. Value description: 0: Quadruple frequency multiplication - The response is faster at low speed. When the duty cycle of the encoder signal is not 50% or the A/B signal is not orthogonal, the speed fluctuation will increase. 1: Fundamental frequency - The speed measurement response at very low speed is slightly poor but relatively stable. 2: Quick speed measurement								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-05	Output A/B phase sequence	1521	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Forward 1：Reverse								
	Description： Defines the output A/B phase sequence. Value description: 0: Forward: Phase A signal leads phase B in frequency-division output. 1: Reverse: Phase A signal lags behind phase B in frequency-division output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-06	Output Z phase	1524	Refer to	0	Unsigned	1	Shutdown	General	Effective

	sequence		"Value"		16 bit		change	user	in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the output phase Z sequence. Value description: 0: Forward - The polarity of the input is the same as that of the output. 1: Reverse - The polarity of the Z signal is reversed before being outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-07	Encoder resolution (pulses/revolution)	1527	0-16000	2500	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the encoder resolution (pulses/revolution). Note: This parameter is marked on the nameplate of an incremental encoder, indicating the number of pulses upon each revolution.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-08	PG quadrature interlock enable	1530	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable PG quadrature interlock function. Note: This function is enabled by default to enhance interference signal suppression.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-09	Pulse frequency-division output coefficient	1533	1-64	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines pulse frequency-division output coefficient.								

	Note: The encoder input signal is multiplied/divided by the frequency-division ratio before being outputted. When this parameter is set to 1, the output signal is the same as the original signal frequency. When this parameter is set to n (n represents any value from 2 to 64), the output signal is 1/n of the input signal frequency.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-10	Open circuit detection mode for ABZ encoder	1536	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not detected 1: ABZ derivative signal 2: AB derivative signal 3: ABZ single-ended positive signal 4: AB single-ended positive signal								
	Description: Defines the open circuit detection mode for ABZ encoder. Value description: 0: Not detected - The detection is disabled. 1: ABZ derivative signal - Detects six signal cables A+/A-, B+/B-, and Z+/Z-. 2: AB derivative signal - Detects four signal cables A+/A- and B+/B-. 3: ABZ single-ended positive signal - Check the signal cables A+, B+, and Z+. Note that only these three signals can be used for wiring. Otherwise, an encoder open circuit fault can be reported. 4: AB single-ended positive signal - Only two signal cables A+ and B+ are detected. Note that only these two cables can be used for wiring. Otherwise, an encoder open circuit fault can be reported. Note: The encoder detection module detects the connection status of the encoder signal cables. A fault is reported once disconnection is detected.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-11	PG open circuit detection time during speed feedback	1554	0.0-10.0	0.5	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the PG open circuit detection time during speed feedback. Note: When the encoder open circuit duration exceeds the value of this parameter, F20-1 (Encoder open circuit) can be reported. If a false fault is reported, increase the value of this parameter. This setpoint 0 indicates this function is disabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n4-12	Encoder installation position angle	1539	0.0-359.9	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Used to set the encoder installation position angle. Note: When driving the synchronous motor, you must set the correct angle of the installation position of the resolver. Otherwise, runaway fault can occur. The installation position angle can be obtained through auto-tuning (b5-00 = 2 or b5-00 = 7). After the encoder is replaced or the parameter is restored to the default value, perform auto-tuning again. The installation position angle information is not required when an asynchronous motor is being driven.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-13	UVW phase sequence of UVW encoder	1542	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the UVW phase sequence of the UVW encoder.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-14	Zero point position angle of U/V/W encoder	1545	0.0-359.9	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the zero point position angle of the UVW encoder.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-15	Number of resolver pole pairs	1548	0-32	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of resolver pole pairs. Note: The number of motor pole pairs must be an integer multiple of the resolver pole pairs. If the number of pole pairs is set incorrectly, A46-507 (Parameter setting alarm) is triggered.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-16	Number of UVW pole	1551	0-32	4	Unsigned	1	Real time	General	Effective

	pairs				16 bit		changes	user	in real time
	Description: Defines the number of UVW pole pairs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-17	Filter time of encoder speed measurement	1557	0-100	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time of encoder speed measurement. Note: This parameter is used to filter the detected feedback speed to smooth the burrs. The default value is 4 ms, during which certain signal interference can be filtered to ensure fast response.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-18	Encoder initial angle trigger setpoint	2428	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the setting for triggering the encoder initial angle. Note: Set U16-94 and U16-95 when the connector value changes. When the connector is single word, the changed value is the value of U16-94. When the connector is double word, the changed value is set to the value of U16-94 for the low word and U16-95 for the high word.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-19	Inverse calculation of encoder angle	2451	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable inverse calculation of encoder angle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-20	Encoder signal exception software detection	1237	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable encoder signal exception software detection. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n4-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n4-23 is used as the threshold. When the resolver is used, n4-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n4-22 continuously and reaches the value of n4-23/n4-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-21	Software detection coefficient of encoder signal exception	1240	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the software detection coefficient of encoder signal error. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n4-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n4-23 is used as the threshold. When the resolver is used, n4-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n4-22 continuously and reaches the value of n4-23/n4-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-22	Software detection threshold of encoder signal exception	33094	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the software detection threshold of encoder signal error.								

	Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n4-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n4-23 is used as the threshold. When the resolver is used, n4-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n4-22 continuously and reaches the value of n4-23/n4-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-23	Threshold of encoder signal error count	3176	1-100	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of encoder signal error count. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n4-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n4-23 is used as the threshold. When the resolver is used, n4-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n4-22 continuously and reaches the value of n4-23/n4-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-25	Resolver type	3191	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 7 Vp-p, turns ratio 0.5 1: 7 Vrms, turns ratio 0.5 2: 7 Vrms, turns ratio 0.286 3: 4 Vrms, turns ratio 0.3								
	Description: Defines the resolver type. Note: Set this parameter based on the actual condition. A resolver beyond the setting range cannot be identified.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-26	Resolver excitation signal frequency	3899	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value: 0: 10 1: 12 2: 15 3: 20
	Description: Defines the resolver excitation signal frequency. Note: Set this parameter based on the actual condition. A resolver beyond the setting range cannot be identified.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-27	Resolver open circuit detection time	3896	0-2000	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines resolver open circuit detection time. Note: When the encoder open circuit duration exceeds the value of this parameter, F20-1 (Encoder open circuit) can be reported. If a false fault is reported, increase the value of this parameter. Due to the characteristics of the resolver, when the motor stops at a certain angle, it cannot be detected even if open circuit occurs, but it will be detected after operating. This setpoint 0 indicates this function is disabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-28	Deburring of encoder speed measurement	2869	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to deburring encoder speed measurement. Note: Even after n4-20 is turned off, the encoder error detection signal can be removed by enabling n4-28.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-29	Z signal loss detection	1590	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Disable 1：Enable
	Description： Defines whether to enable Z signal loss detection. Value description: 0: Disable - The fault will not be reported. 1: Enable - F20-9 (Z signal loss) is reported after Z signal loss is detected.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-30	Z signal interference detection	1593	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disable 1：Enable								
	Description： Defines whether to enable Z signal interference detection. Value description: 0: Disable - The fault will not be reported. 1: Enable - F20-8 (Signal disturbed) can be reported after Z signal interference is detected.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-31	Resolver signal error count threshold	6302	1-100	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the threshold for resolver signal error count. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n4-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n4-23 is used as the threshold. When the resolver is used, n4-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n4-22 continuously and reaches the value of n4-23/n4-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-32	Number of motor revolutions for motor/encoder	6015	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	transmission ratio								
	Description: Defines the number of motor revolutions for motor/encoder transmission ratio.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-33	Number of encoder revolutions for motor/encoder transmission ratio	6018	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of encoder revolutions for motor/encoder transmission ratio.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-36	Retention of encoder pulse count upon power failure	6305	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Retain pulse count 2: Retain angle turn count								
	Description: Used to set retention of encoder pulse count upon power failure. Value description: 0: Disabled - U29-40 counts from 0 every time upon power-on. 1: Retain pulse count - The current position value of U29-40 is saved before the HCU is powered off. The last position is used as the starting point for counting upon next power-on. Ensure that the encoder and device are not moved after the HCU is powered off. 2: Retain angle turn count - The current angle value of U16-94 and the number of revolutions of U16-95 are saved before the HCU is powered off. The last position is used as the starting point for counting upon next power-on. Ensure that the encoder and device are not moved after the HCU is powered off.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-38	Encoder position setting switch	6311	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: B connector								
	Description: Defines whether to enable encoder position setting switch.								

	Note: When n4-38 = 1, the value of U29-40 is set to the value of the connector defined by n4-39 forcibly. If n4-39 is set to 0, the operation is cleared. When n4-38 is set to 0, U29-40 can increase or decrease as the encoder rotates normally.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-39	Encoder position setting value	6314	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the encoder position setting value. Note: When n4-38 = 1, the value of U29-40 is set to the value of the connector defined by n4-39 forcibly. If n4-39 is set to 0, the operation is cleared. When n4-38 is set to 0, U29-40 can increase or decrease as the encoder rotates normally.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-43	Speed measurement calculation mode	6688	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Mode 0 1: Mode 1								
	Description: Defines the speed measurement calculation mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-54	Speed measurement mode at low speed	6700	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Mode 0 1: Mode 1								
	Description: Defines the speed measurement mode at low speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n4-55	Additional filter of encoder speed	6703	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the additional filter of encoder speed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n4-68	Z signal interference fault threshold	7433	0-100	3	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines Z signal interference fault threshold.								

n5 Encoder detection module 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-00	Expansion slot selection	1510	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Used to select the expansion module slot.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-01	Module online state	32826	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the module online state. Note: When n5-00 and n5-02 are configured correctly, this parameter should display the setpoint 1 (Online).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-02	Encoder type	1513	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Invalid 1: Regular ABZ encoder 2: Sin-cos encoder 3: Resolver								
	Description: Defines the encoder type.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-03	Input A/B phase sequence	1516	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the input A/B phase sequence. Note: If the encoder speed measurement is opposite to the selected motor direction, modify this parameter to adjust the speed measurement direction.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-04	Speed measurement mode	1519	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Quadruple frequency multiplication 1: Fundamental frequency 2: Quick speed measurement								
	Description: Defines the encoder speed measurement mode. Value description: 0: Quadruple frequency multiplication - The response is faster at low speed. When the duty cycle of the encoder signal is not 50% or the A/B signal is not orthogonal, the speed fluctuation will increase. 1: Fundamental frequency - The speed measurement response at very low speed is slightly poor but relatively stable.								

	2: Quick speed measurement								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-05	Output A/B phase sequence	1522	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the output A/B phase sequence. Value description: 0: Forward: Phase A signal leads phase B in frequency-division output. 1: Reverse: Phase A signal lags behind phase B in frequency-division output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-06	Output Z phase sequence	1525	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the output phase Z sequence. Value description: 0: Forward - The polarity of the input is the same as that of the output. 1: Reverse - The polarity of the Z signal is reversed before being outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-07	Encoder resolution (pulses/revolution)	1528	0-16000	2500	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the encoder resolution (pulses/revolution). Note: This parameter is marked on the nameplate of an incremental encoder, indicating the number of pulses upon each revolution.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n5-08	PG quadrature interlock enable	1531	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable PG quadrature interlock function. Note: This function is enabled by default to enhance interference signal suppression.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-09	Pulse frequency-division output coefficient	1534	1-64	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines pulse frequency-division output coefficient. Note: The encoder input signal is multiplied/divided by the frequency-division ratio before being outputted. When this parameter is set to 1, the output signal is the same as the original signal frequency. When this parameter is set to n (n represents any value from 2 to 64), the output signal is 1/n of the input signal frequency.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-10	Open circuit detection mode for ABZ encoder	1537	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not detected 1: ABZ derivative signal 2: AB derivative signal 3: ABZ single-ended positive signal 4: AB single-ended positive signal								
	Description: Defines the open circuit detection mode for ABZ encoder. Value description: 0: Not detected - The detection is disabled. 1: ABZ derivative signal - Detects six signal cables A+/A-, B+/B-, and Z+/Z-. 2: AB derivative signal - Detects four signal cables A+/A- and B+/B-. 3: ABZ single-ended positive signal - Check the signal cables A+, B+, and Z+. Note that only these three signals can be used for wiring. Otherwise, an encoder open circuit fault can be reported. 4: AB single-ended positive signal - Only two signal cables A+ and B+ are detected. Note that only these two cables can be								

	used for wiring. Otherwise, an encoder open circuit fault can be reported. Note: The encoder detection module detects the connection status of the encoder signal cables. A fault is reported once open circuit is detected.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-11	PG open circuit detection time during speed feedback	1555	0.0-10.0	0.5	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the PG open circuit detection time during speed feedback. Note: When the encoder open circuit duration exceeds the value of this parameter, F20-1 (Encoder open circuit) can be reported. If a false fault is reported, increase the value of this parameter. This setpoint 0 indicates this function is disabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-12	Encoder installation position angle	1540	0.0-359.9	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Used to set the encoder installation position angle. Note: When driving the synchronous motor, you must set the correct angle of the installation position of the resolver. Otherwise, runaway fault can occur. The installation position angle can be obtained through auto-tuning (b5-00 = 2 or b5-00 = 7). After the encoder is replaced or the parameter is restored to the default value, perform auto-tuning again. The installation position angle information is not required when an asynchronous motor is being driven.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-13	UVW phase sequence of UVW encoder	1543	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the UVW phase sequence of the UVW encoder.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-14	Zero point position	1546	0.0-	0.0	Unsigned	0.1	Real time	General	Effective

	angle of U/V/W encoder		359.9		16 bit		changes	user	in real time
	Description: Defines the zero point position angle of the UVW encoder.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-15	Number of resolver pole pairs	1549	0-32	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of resolver pole pairs. Note: The number of motor pole pairs must be an integer multiple of the resolver pole pairs. If the number of pole pairs is set incorrectly, A46-507 (Parameter setting alarm) is triggered.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-16	Number of UVW pole pairs	1552	0-32	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of UVW pole pairs.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-17	Filter time of encoder speed measurement	1558	0-100	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time of encoder speed measurement. Note: This parameter is used to filter the detected feedback speed to smooth the burrs. The default value is 4 ms, during which certain signal interference can be filtered to ensure fast response.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-18	Encoder initial angle trigger setpoint	2429	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description:								

	Defines the setting for triggering the encoder initial angle. Note: Set U16-96 and U16-97 when the connector value changes. When the connector is single word, the changed value is the value of U16-96. When the connector is double word, the changed value is set to the value of U16-96 for the low word and U16-97 for the high word.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-19	Inverse calculation of encoder angle	2452	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable inverse calculation of encoder angle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-20	Encoder signal exception software detection	1238	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether to enable encoder signal exception software detection. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n5-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n5-23 is used as the threshold. When the resolver is used, n5-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n5-22 continuously and reaches the value of n5-23/n5-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-21	Software detection coefficient of encoder signal exception	1241	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the software detection coefficient of encoder signal error. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n5-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n5-23 is used as the threshold. When the resolver is used, n5-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n5-22 continuously and reaches the value of n5-23/n5-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-22	Software detection threshold of encoder signal exception	33094	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the software detection threshold of encoder signal error. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n5-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n5-23 is used as the threshold. When the resolver is used, n5-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n5-22 continuously and reaches the value of n5-23/n5-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-23	Threshold of encoder signal error count	3177	1-100	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of encoder signal error count. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n5-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n5-23 is used as the threshold. When the resolver is used, n5-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n5-22 continuously and reaches the value of n5-23/n5-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-25	Resolver type	3192	Refer to	0	Unsigned	1	Shutdown	General	Effective in real

			"Value"		16 bit		change	user	time
	Value: 0: 7 Vp-p, turns ratio 0.5 1: 7 Vrms, turns ratio 0.5 2: 7 Vrms, turns ratio 0.286 3: 4 Vrms, turns ratio 0.3								
	Description: Defines the resolver type. Note: Set this parameter based on the actual condition. A resolver beyond the setting range cannot be identified.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-26	Resolver excitation signal frequency	3900	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 10 1: 12 2: 15 3: 20								
	Description: Defines the resolver excitation signal frequency. Note: Set this parameter based on the actual condition. A resolver beyond the setting range cannot be identified.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-27	Resolver open circuit detection time	3897	0-2000	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines resolver open circuit detection time. Note: When the encoder open circuit duration exceeds the value of this parameter, F20-1 (Encoder open circuit) can be reported. If a false fault is reported, increase the value of this parameter. Due to the characteristics of the resolver, when the motor stops at a certain angle, it cannot be detected even if open circuit occurs, but it will be detected after operating. This setpoint 0 indicates this function is disabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-28	Deburring of encoder	2870	Refer to	1	Unsigned	1	Real time	General	Effective

	speed measurement		"Value"		16 bit		changes	user	in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to deburring encoder speed measurement. Note: Even after n5-20 is turned off, the encoder error detection signal can be removed by enabling n5-28.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-29	Z signal loss detection	1591	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable Z signal loss detection. Value description: 0: Disable - The fault will not be reported. 1: Enable - F20-9 (Z signal loss) is reported after Z signal loss is detected.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-30	Z signal interference detection	1594	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable Z signal interference detection. Value description: 0: Disable - The fault will not be reported. 1: Enable - F20-8 (Signal disturbed) can be reported after Z signal interference is detected.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-31	Resolver signal error	6303	1-100	4	Unsigned	1	Real time	General	Effective

	count threshold				16 bit		changes	user	in real time
	Description: Defines the threshold for resolver signal error count. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n5-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n5-23 is used as the threshold. When the resolver is used, n5-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n5-22 continuously and reaches the value of n5-23/n5-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-32	Number of motor revolutions for motor/encoder transmission ratio	6016	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of motor revolutions for motor/encoder transmission ratio.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-33	Number of encoder revolutions for motor/encoder transmission ratio	6019	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of encoder revolutions for motor/encoder transmission ratio.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-36	Retention of encoder pulse count upon power failure	6306	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Retain pulse count 2: Retain angle turn count								
	Description: Used to set retention of encoder pulse count upon power failure. Value description: 0: Disabled - U29-40 counts from 0 every time upon power-on.								

	1: Retain pulse count - The current position value of U29-41 is saved before the HCU is powered off. The last position is used as the starting point for counting upon next power-on. Ensure that the encoder and device are not moved after the HCU is powered off. 2: Retain angle turn count - The current angle value of U16-96 and the number of revolutions of U16-97 are saved before the HCU is powered off. The last position is used as the starting point for counting upon next power-on. Ensure that the encoder and device are not moved after the HCU is powered off.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-38	Encoder position setting switch	6312	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disabled Others： B connector								
	Description： Defines whether to enable encoder position setting switch. Note: When n5-38 = 1, the value of U29-41 is set to the value of the connector defined by n5-39 forcibly. If n5-39 is set to 0, the operation is cleared. When n5-38 is set to 0, U29-41 can increase or decrease as the encoder rotates normally.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-39	Encoder position setting value	6315	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the encoder position setting value. Note: When n5-38 = 1, the value of U29-41 is set to the value of the connector defined by n5-39 forcibly. If n5-39 is set to 0, the operation is cleared. When n5-38 is set to 0, U29-41 can increase or decrease as the encoder rotates normally.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-43	Speed measurement calculation mode	6689	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value：								

	0：Mode 0 1：Mode 1
	Description： Defines the speed measurement calculation mode.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-54	Speed measurement mode at low speed	6701	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Mode 0 1：Mode 1								
	Description： Defines the speed measurement mode at low speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-55	Additional filter of encoder speed	6704	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the additional filter of encoder speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n5-68	Z signal interference fault threshold	7434	0-100	3	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines Z signal interference fault threshold.								

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-00	Expansion slot selection	1511	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Disabled 1：Expansion slot 1_1 2：Expansion slot 1_2 4：Expansion slot 2_1 5：Expansion slot 2_2 6：Expansion slot 2_3								

	3：Expansion slot 1_3　　7：Expansion slot 3_1								
	Description： Used to select the expansion module slot.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-01	Module online state	32827	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：Offline 1：Online								
	Description： Displays the module online state. Note: When n6-00 and n6-02 are configured correctly, this parameter should display the setpoint 1 (Online).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-02	Encoder type	1514	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Invalid 1：Regular ABZ encoder 2：Sin-cos encoder 3：Resolver								
	Description： Defines the encoder type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-03	Input A/B phase sequence	1517	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Forward 1：Reverse								
	Description： Defines the input A/B phase sequence. Note: If the encoder speed measurement is opposite to the selected motor direction, modify this parameter to adjust the speed								

	measurement direction.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-04	Speed measurement mode	1520	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Quadruple frequency multiplication 1: Fundamental frequency 2: Quick speed measurement								
	Description: Defines the encoder speed measurement mode. Value description: 0: Quadruple frequency multiplication - The response is faster at low speed. When the duty cycle of the encoder signal is not 50% or the A/B signal is not orthogonal, the speed fluctuation will increase. 1: Fundamental frequency - The speed measurement response at very low speed is slightly poor but relatively stable. 2: Quick speed measurement								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-05	Output A/B phase sequence	1523	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the output A/B phase sequence. Value description: 0: Forward: Phase A signal leads phase B in frequency-division output. 1: Reverse: Phase A signal lags behind phase B in frequency-division output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-06	Output Z phase sequence	1526	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description:								

	Defines the output phase Z sequence. Value description: 0: Forward - The polarity of the input is the same as that of the output. 1: Reverse - The polarity of the Z signal is reversed before being outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-07	Encoder resolution (pulses/revolution)	1529	0-16000	2500	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the encoder resolution (pulses/revolution). Note: This parameter is marked on the nameplate of an incremental encoder, indicating the number of pulses upon each revolution.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-08	PG quadrature interlock enable	1532	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable PG quadrature interlock function. Note: This function is enabled by default to enhance interference signal suppression.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-09	Pulse frequency-division output coefficient	1535	1-64	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines pulse frequency-division output coefficient. Note: The encoder input signal is multiplied/divided by the frequency-division ratio before being outputted. When this parameter is set to 1, the output signal is the same as the original signal frequency. When this parameter is set to n (n represents any value from 2 to 64), the output signal is 1/n of the input signal frequency.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n6-10	Open circuit detection mode for ABZ encoder	1538	Refer to "Value"	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not detected 1: ABZ derivative signal 2: AB derivative signal 3: ABZ single-ended positive signal 4: AB single-ended positive signal								
	Description: Defines the open circuit detection mode for ABZ encoder. Value description: 0: Not detected - The detection is disabled. 1: ABZ derivative signal - Detects six signal cables A+/A-, B+/B-, and Z+/Z-. 2: AB derivative signal - Detects four signal cables A+/A- and B+/B-. 3: ABZ single-ended positive signal - Check the signal cables A+, B+, and Z+. Note that only these three signals can be used for wiring. Otherwise, an encoder open circuit fault can be reported. 4: AB single-ended positive signal - Only two signal cables A+ and B+ are detected. Note that only these two cables can be used for wiring. Otherwise, an encoder open circuit fault can be reported. Note: The encoder detection module detects the connection status of the encoder signal cables. A fault is reported once open circuit is detected.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-11	PG open circuit detection time during speed feedback	1556	0.0-10.0	0.5	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the PG open circuit detection time during speed feedback. Note: When the encoder open circuit duration exceeds the value of this parameter, F20-1 (Encoder open circuit) can be reported. If a false fault is reported, increase the value of this parameter. This setpoint 0 indicates this function is disabled.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-12	Encoder installation position angle	1541	0.0-359.9	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Used to set the encoder installation position angle.								

	Note: When driving the synchronous motor, you must set the correct angle of the installation position of the resolver. Otherwise, runaway fault can occur. The installation position angle can be obtained through auto-tuning (b5-00 = 2 or b5-00 = 7). After the encoder is replaced or the parameter is restored to the default value, perform auto-tuning again. The installation position angle information is not required when an asynchronous motor is being driven.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-13	UVW phase sequence of UVW encoder	1544	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Forward 1: Reverse								
	Description: Defines the UVW phase sequence of the UVW encoder.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-14	Zero point position angle of U/V/W encoder	1547	0.0-359.9	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the zero point position angle of the UVW encoder.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-15	Number of resolver pole pairs	1550	0-32	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of resolver pole pairs. Note: The number of motor pole pairs must be an integer multiple of the resolver pole pairs. If the number of pole pairs is set incorrectly, A46-507 (Parameter setting alarm) is triggered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-16	Number of UVW pole pairs	1553	0-32	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of UVW pole pairs.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n6-17	Filter time of encoder speed measurement	1559	0-100	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time of encoder speed measurement. Note: This parameter is used to filter the detected feedback speed to smooth the burrs. The default value is 4 ms, during which certain signal interference can be filtered to ensure fast response.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-18	Encoder initial angle trigger setpoint	2430	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the setting for triggering the encoder initial angle. Note: Set U16-98 and U16-99 when the connector value changes. When the connector is single word, the changed value is the value of U16-98. When the connector is double word, the changed value is set to the value of U16-98 for the low word and U16-99 for the high word.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-19	Inverse calculation of encoder angle	2453	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disable 1: Enable								
	Description: Defines whether to enable inverse calculation of encoder angle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-20	Encoder signal exception software detection	1239	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Disabled 1：Enabled
	Description： Defines whether to enable encoder signal exception software detection. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n6-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n6-23 is used as the threshold. When the resolver is used, n6-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n6-22 continuously and reaches the value of n6-23/n6-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-21	Software detection coefficient of encoder signal exception	1242	0-800	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the software detection coefficient of encoder signal error. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n6-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n6-23 is used as the threshold. When the resolver is used, n6-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n6-22 continuously and reaches the value of n6-23/n6-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-22	Software detection threshold of encoder signal exception	33094	0-6553.5	0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
	Description： Displays the software detection threshold of encoder signal error. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n6-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n6-23 is used as the threshold. When the resolver is used, n6-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n6-22 continuously and reaches the value of n6-23/n6-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be								

	triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-23	Threshold of encoder signal error count	3178	1-100	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of encoder signal error count. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n6-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n6-23 is used as the threshold. When the resolver is used, n6-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n6-22 continuously and reaches the value of n6-23/n6-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-25	Resolver type	3193	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 7 Vp-p, turns ratio 0.5 1: 7 Vrms, turns ratio 0.5 2: 7 Vrms, turns ratio 0.286 3: 4 Vrms, turns ratio 0.3								
	Description: Defines the resolver type. Note: Set this parameter based on the actual condition. A resolver beyond the setting range cannot be identified.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-26	Resolver excitation signal frequency	3901	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 10 1: 12 2: 15 3: 20								
	Description:								

	Defines the resolver excitation signal frequency. Note: Set this parameter based on the actual condition. A resolver beyond the setting range cannot be identified.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-27	Resolver open circuit detection time	3898	0-2000	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description: Defines resolver open circuit detection time. Note: When the encoder open circuit duration exceeds the value of this parameter, F20-1 (Encoder open circuit) can be reported. If a false fault is reported, increase the value of this parameter. Due to the characteristics of the resolver, when the motor stops at a certain angle, it cannot be detected even if open circuit occurs, but it will be detected after operating. This setpoint 0 indicates this function is disabled.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-28	Deburring of encoder speed measurement	2871	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value: 0: Disable 1: Enable
Description: Defines whether to deburring encoder speed measurement. Note: Even after n6-20 is turned off, the encoder error detection signal can be removed by enabling n6-28.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-29	Z signal loss detection	1592	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value: 0: Disable 1: Enable
Description: Defines whether to enable Z signal loss detection. Value description:

	0: Disable - The fault will not be reported. 1: Enable - F20-9 (Z signal loss) is reported after Z signal loss is detected.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-30	Z signal interference detection	1595	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disable 1： Enable								
	Description： Defines whether to enable Z signal interference detection. Value description: 0: Disable - The fault will not be reported. 1: Enable - F20-8 (Signal disturbed) can be reported after Z signal interference is detected.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-31	Resolver signal error count threshold	6304	1-100	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the threshold for resolver signal error count. Note: This threshold is set automatically during auto-tuning. The effective threshold is displayed in n6-22. If the speed fluctuation detected by the encoder exceeds this threshold, the detection value is abnormal. When the incremental encoder is enabled, n6-23 is used as the threshold. When the resolver is used, n6-31 is used as the threshold. When the encoder detection signal fluctuation exceeds the threshold of n6-22 continuously and reaches the value of n6-23/n6-31, F20-5 (Encoder speed measurement fluctuation or pulse feedback fluctuation exceeding the allowable range) can be triggered. The exception signals before the threshold is reached are removed to ensure smooth speed detection.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-32	Number of motor revolutions for motor/encoder transmission ratio	6017	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description： Defines the number of motor revolutions for motor/encoder transmission ratio.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-33	Number of encoder	6020	1-65535	1	Unsigned	1	Shutdown	General	Effective

	revolutions for motor/encoder transmission ratio				16 bit		change	user	in real time
	Description: Defines the number of encoder revolutions for motor/encoder transmission ratio.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-36	Retention of encoder pulse count upon power failure	6307	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Retain pulse count 2: Retain angle turn count								
	Description: Used to set retention of encoder pulse count upon power failure. Value description: 0: Disabled - U29-40 counts from 0 every time upon power-on. 1: Retain pulse count - The current position value of U29-42 is saved before the HCU is powered off. The last position is used as the starting point for counting upon next power-on. Ensure that the encoder and device are not moved after the HCU is powered off. 2: Retain angle turn count - The current angle value of U16-98 and the number of revolutions of U16-99 are saved before the HCU is powered off. The last position is used as the starting point for counting upon next power-on. Ensure that the encoder and device are not moved after the HCU is powered off.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-38	Encoder position setting switch	6313	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: B connector								
	Description: Defines whether to enable encoder position setting switch. Note: When n6-38 = 1, the value of U29-42 is set to the value of the connector defined by n6-39 forcibly. If n6-39 is set to 0, the operation is cleared. When n6-38 is set to 0, U29-42 can increase or decrease as the encoder rotates normally.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n6-39	Encoder position setting value	6316	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the encoder position setting value. Note: When n6-38 = 1, the value of U29-42 is set to the value of the connector defined by n6-39 forcibly. If n6-39 is set to 0, the operation is cleared. When n6-38 is set to 0, U29-42 can increase or decrease as the encoder rotates normally.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-43	Speed measurement calculation mode	6690	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Mode 0 1: Mode 1								
	Description: Defines the speed measurement calculation mode.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-54	Speed measurement mode at low speed	6702	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Mode 0 1: Mode 1								
	Description: Defines the speed measurement mode at low speed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n6-55	Additional filter of encoder speed	6705	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the additional filter of encoder speed.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n6-68	Z signal interference fault threshold	7435	0-100	3	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines Z signal interference fault threshold.								

n7 HIO module 1 configuration

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-00	Expansion slot selection	3439	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Used to set the HIO module 1 slot position.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-01	Module online state	35116	Refer to "Value"	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Expansion module not found 2: Module communication OK								
	Description: Displays the status of HIO module 1. Value description: 0: Disabled 1: Expansion module not found - The module type defined by n7-02 does not match the module type identified. 2: Module communication OK - The I/O module operates normally.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-02	Module type	3673	Refer to	0	Unsigned	1	Shutdown	General	Effective in real

	selection		"Value"		16 bit		change	user	time
	Value: 0: Disabled 1: HIO-10 2: HIO-20 3: HIO-30								
	Description: Set this parameter based on the I/O module type inserted to the card slot defined by n7-00. Value description: 0: Disable 1: HIO-10 - The parameter group n23 is active, and parameter groups n24 and n25 are hidden. 2: HIO-20 module - The parameter group n24 is active, and parameter groups n23 and n25 are hidden. 3: HIO-30 module - The parameter group n25 is active, and parameter groups n23 and n24 are hidden.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-10	Configuration for DIO used as output	35167	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays DIO module configuration state. Note: The HIO module provides a maximum of six DIOs. DIO1 to DOI6 correspond to bit0 to bit5 of n7-10 respectively. 0: DIO used as DI 1: DIO used as DO								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-11	Original status of DI/DIO input	35119	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the initial state of DI or DIO input. bit0 to bit5 display the initial state when DIO is used as DI. bit8 to bit13 display the initial state of DI input.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-12	Final status of DI/DIO input	35122	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the final input status of the DI or DIO used as DI input after being filtered, delayed and processed with positive/negative logic. bit0 to bit5 display the DIO.								

	Defines the final DI input state. bit8 to bit13 display the final DI input state. You can monitor DI1 to DI6 and DIO1 to DIO6 inputs through U4-00 [<I/O module 1> DI1 input] to U4-11 [<I/O module 1> DIO6 input].								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-13	RO/DIO output setting state	35290	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the DO setting state of RO or DIO that used as DO. bit0 to bit5 display the output setting state of the DIO that used as DO. bit8 to bit13 display the RO output setting status.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-14	Final status of RO/DIO output	35128	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the final output state of RO or DIO that used as DO after being delayed and processed with the positive/negative logic. bit0 to bit5 display the final state of DIO that used as DO. bit8 to bit13 displays the final state of RO output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-15	AI input status word	35125	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the AI input state, including AI open circuit and AI limit violation.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-20	AI1 input value	35131	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: The unit is V or mA as defined by n25-41.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-21	AI1 input proportion	35245	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25.								

	Note: When n25-40 is disabled, the value is set to 0 forcibly. It can be monitored through U5-91.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-22	AI2 input value	35137	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI2. Note: The unit is V or mA as defined by n25-51.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-23	AI2 input proportion	35248	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25. Note: When n25-50 is disabled, the value is set to 0 forcibly. It can be monitored through U5-92.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-24	AI3 input value	35143	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: The unit is V or mA as defined by n25-61.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-25	AI3 input proportion	35251	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25. Note:								

	When n25-60 is disabled, the value is set to 0 forcibly. It can be monitored through U5-93.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-30	AO1 output proportion	35254	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output percentage that corresponds to n25-70. Note: The output proportion is limited by the minimum output proportion of AO1 curve (n25-72) and the maximum output proportion of AO1 curve (n25-74).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-31	AO1 actual output value	35149	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output value. Note: The unit is V or mA as defined by n25-71. The output value is limited by the minimum output value of AO1 curve (n25-73) and the maximum output value of AO1 curve (n25-75).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-32	AO2 output proportion	35257	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output percentage that corresponds to n25-80. Note: The output proportion is limited by the minimum output proportion of AO2 curve (n25-82) and the maximum output proportion of AO2 curve (n25-84).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-33	AO2 actual output value	35155	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output value.								

	Note: The unit is V or mA as defined by n25-81. The output value is limited by the minimum output value of AO2 curve (n25-83) and the maximum output value of AO2 curve (n25-85).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-34	AO3 output proportion	35260	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO3 output percentage that corresponds to n25-90. Note: The output proportion is limited by the minimum output proportion of AO3 curve (n25-92) and the maximum output proportion of AO3 curve (n25-94).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n7-35	AO3 actual output value	35161	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO3 output value. Note: The unit is V or mA as defined by n25-91. The output value is limited by the minimum output value of AO3 curve (n25-93) and the maximum output value of AO3 curve (n25-95).								

n8 HIO module 2 configuration

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-00	Expansion slot selection	3440	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Used to set the HIO module 2 slot position.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n8-01	Module online state	35117	Refer to "Value"	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Expansion module not found 2: Module communication OK								
	Description: Displays the status of HIO module 2. Value description: 0: Disabled - n8-02 is disabled. 1: Expansion module not found - The module type defined by n8-02 does not match the module type identified. 2: Module communication OK - The I/O module operates normally.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-02	Module type selection	3674	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: HIO-10 2: HIO-20 3: HIO-30								
	Description: Set this parameter based on the I/O module type inserted to the card slot defined by n8-00. Value description: 0: Disable 1: HIO-10 - The parameter group n26 is active, and parameter groups n27 and n28 are hidden. 2: HIO-20 module - The parameter group n27 is active, and parameter groups n26 and n28 are hidden. 3: HIO-30 module - The parameter group n28 is active, and parameter groups n26 and n27 are hidden.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-10	Configuration for DIO used as output	35168	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays DIO module configuration state. Note:								

	The HIO module provides a maximum of six DIOs. DIO1 to DOI6 correspond to bit0 to bit5 of n8-10 respectively. 0: DIO used as DI 1: DIO used as DO

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-11	Original status of DI/DIO input	35120	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the initial state of DI or DIO input. bit0 to bit5 display the initial state when DIO is used as DI. bit8 to bit13 display the initial state of DI input.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-12	Final status of DI/DIO input	35123	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the final input state of DI or DIO that used as DI after being delayed and processed with the positive/negative logic. bit0 to bit5 display the final state of DIO that used as DI. bit8 to bit13 displays the final state of DI input. You can monitor DI1 to DI6 and DIO1 to DIO6 inputs through U4-12 [<I/O module 2> DI1 input] to U4-23 [<I/O module 2> DIO6 input].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-13	RO/DIO output setting state	35291	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the DO setting state of RO or DIO that used as DO. bit0 to bit5 display the output setting state of the DIO that used as DO. bit8 to bit13 display the RO output setting status.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-14	Final status of RO/DIO output	35129	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the final output state of the DO output of RO or DIO that used as DO after being delayed and processed with positive/negative logic. bit0 to bit5 display the final state of DIO that used as DO. bit8 to bit13 display the final state of RO output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-15	AI input status word	35126	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real

									time
	Description: Displays the AI input state, including AI open circuit and AI limit violation.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-20	AI1 input value	35132	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: The unit is V or mA as defined by n28-41.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-21	AI1 input proportion	35246	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n28. Note: When n28-40 is disabled, the value is set to 0 forcibly. It can be monitored through U5-94.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-22	AI2 input value	35138	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI2. Note: The unit is V or mA as defined by n28-51.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-23	AI2 input proportion	35249	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25. Note:								

	When n28-50 is disabled, the value is set to 0 forcibly. It can be monitored through U5-95.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-24	AI3 input value	35144	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: The unit is V or mA as defined by n28-61.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-25	AI3 input proportion	35252	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25. Note: When n28-60 is disabled, the value is set to 0 forcibly. It can be monitored through U5-96.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-30	AO1 output proportion	35255	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output percentage that corresponds to n28-70. Note: The output proportion is limited by the minimum output proportion of AO1 curve (n28-72) and the maximum output proportion of AO1 curve (n28-74).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-31	AO1 actual output value	35150	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output value. Note: The unit is V or mA as defined by n28-71. The output value is limited by the minimum output value of AO1 curve (n28-73)								

	and the maximum output value of AO1 curve (n28-75).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-32	AO2 output proportion	35258	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output percentage that corresponds to n28-80. Note: The output proportion is limited by the minimum output proportion of AO2 curve (n28-82) and the maximum output proportion of AO2 curve (n28-84).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-33	AO2 actual output value	35156	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output value. Note: The unit is V or mA as defined by n28-81. The output value is limited by the minimum output value of the AO2 curve (n28-83) and the maximum output value of the AO2 curve (n28-85).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-34	AO3 output proportion	35261	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO3 output percentage that corresponds to n28-90. Note: The output proportion is limited by the minimum output proportion of AO3 curve (n28-92) and the maximum output proportion of AO3 curve (n28-94).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n8-35	AO3 actual output value	35162	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO3 output value.								

	Note: The unit is V or mA as defined by n28-91. The output value is limited by the minimum output value of the AO3 curve (n28-93) and the maximum output value of the AO3 curve (n28-95).

n9 HIO module 3 configuration

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-00	Expansion slot selection	3441	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Used to set the HIO module 3 slot position.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-01	Module online state	35118	Refer to "Value"	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Expansion module not found 2: Module communication OK								
	Description: Displays the status of HIO module 3. Value description: 0: Disabled - n9-02 is disabled. 1: Expansion module not found - The module type defined by n9-02 does not match the module type identified. 2: Module communication OK - The I/O module operates normally.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-02	Module type selection	3675	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

	0：Disabled 1：HIO-10 2：HIO-20 3：HIO-30
	Description： Set this parameter based on the I/O module type inserted to the card slot defined by n9-00. Value description: 0: Disable 1: HIO-10 - The parameter group n29 is active, and parameter groups n30 and n31 are hidden. 2: HIO-20 module - The parameter group n30 is active, and parameter groups n29 and n31 are hidden. 3: HIO-30 module - The parameter group n31 is active, and parameter groups n29 and n30 are hidden.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-10	Configuration for DIO used as output	35169	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays DIO module configuration state. Note: The HIO module provides a maximum of six DIOs. DIO1 to DOI6 correspond to bit0 to bit5 of n9-10 respectively. 0: DIO used as DI 1: DIO used as DO								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-11	Original status of DI/DIO input	35121	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays the initial state of DI or DIO input. bit0 to bit5 display the initial state when DIO is used as DI. bit8 to bit13 display the initial state of DI input.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-12	Final status of DI/DIO input	35124	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description： Displays the final input state of DI or DIO that used as DI after being delayed and processed with the positive/negative logic. bit0 to bit5 display the final state of DIO that used as DI. bit8 to bit13 displays the final state of DI input. You can monitor DI1 to DI6 and DIO1 to DIO6 inputs through U4-24 [<I/O module 3> DI1 input] to U4-35 [<I/O module 3> DIO6 input].								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-13	RO/DIO output setting state	35292	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the DO setting state of RO or DIO that used as DO. bit0 to bit5 display the output setting state of the DIO that used as DO. bit8 to bit13 display the RO output setting status.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-14	Final status of RO/DIO output	35130	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the final output state of RO or DIO that used as DO after being delayed and processed with the positive/negative logic. bit0 to bit5 display the final state of DIO that used as DO. bit8 to bit13 displays the final state of RO output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-15	AI input status word	35127	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the AI input state, including AI open circuit and AI limit violation.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-20	AI1 input value	35133	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: The unit is V or mA as defined by n31-41.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-21	AI1 input proportion	35247	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n31. Note:								

	When n31-40 is disabled, the value is set to 0 forcibly. It can be monitored through U5-97.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-22	AI2 input value	35139	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI2. Note: The unit is V or mA as defined by n31-51.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-23	AI2 input proportion	35250	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25. Note: When n31-50 is disabled, the value is set to 0 forcibly. It can be monitored through U5-98.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-24	AI3 input value	35145	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the input value of AI1. Note: The unit is V or mA as defined by n31-61.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-25	AI3 input proportion	35253	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the percentage corresponding to AI1 input, which is the final output after being processed by group n25. Note: When n31-60 is disabled, the value is set to 0 forcibly. It can be monitored through U5-99.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n9-30	AO1 output proportion	35256	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output percentage that corresponds to n31-70. Note: The output proportion is limited by the minimum output proportion of AO1 curve (n31-72) and the maximum output proportion of AO1 curve (n31-74).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-31	AO1 actual output value	35151	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO1 output value. Note: The unit is V or mA as defined by n31-71. The output value is limited by the minimum output value of AO1 curve (n31-73) and the maximum output value of AO1 curve (n31-75).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-32	AO2 output proportion	35259	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output percentage that corresponds to n31-80. Note: The output proportion is limited by the minimum output proportion of AO2 curve (n31-82) and the maximum output proportion of AO2 curve (n31-84).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-33	AO2 actual output value	35157	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO2 output value. Note: The unit is V or mA as defined by n31-81. The output value is limited by the minimum output value of the AO2 curve (n31-								

	83) and the maximum output value of the AO2 curve (n31-85).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-34	AO3 output proportion	35262	-3276.8 to +3276.7	0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
	Description: Displays the AO3 output percentage that corresponds to n31-90. Note: The output proportion is limited by the minimum output proportion of AO3 curve (n31-92) and the maximum output proportion of AO3 curve (n31-94).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n9-35	AO3 actual output value	35163	-327.68 to +327.67	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
	Description: Displays the AO3 output value. Note: The unit is V or mA as defined by n31-91. The output value is limited by the minimum output value of the AO3 curve (n31-93) and the maximum output value of the AO3 curve (n31-95).								

n10 Modbus-RTU module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-00	Expansion slot selection	1728	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position where the Modbus-RTU module is located. Note: The Modbus-RTU and Modbus TCP support writing of process data n1-68 to n1-83 (n2-68 to n2-83). After converted by								

	communication base values of n1-36 to n1-51 (n2-36 to n2-51), the process data is updated to the corresponding connector U5-44 to U5-59 (U5-60 to U5-75). You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-01	Module online state	33882	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current Modbus-RTU module. Note: n10-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-02	Modbus baud rate	1731	Refer to "Value"	7	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 1200 bps 1: 2400 bps 2: 4800 bps 3: 9600 bps 4: 19200 bps 5: 38400 bps 6: 57600 bps 7: 115200 bps								
	Description: Defines the communication baud rate of the Modbus-RTU module. Note: The communication baud rate must be consistent with the setting of the host controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-03	Modbus data format	1732	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Even parity check (8-E-1) 1: Odd parity check (8-O-1) 2: No parity check (8-N-2) 3: 8-N-1								

	Description: Defines the transmission data format of the Modbus-RTU module. Note: The data transmission format must be consistent with the setting of the host controller.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-04	Modbus local address	1733	1-255	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the local station number of Modbus.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-05	Modbus response delay	1734	0-20	4	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines Modbus-RTU module response delay. Note: After the Modbus-RTU module receives the data, it waits for at least the time set by this parameter before responding.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n10-06	Modbus communication timeout	1735	0.0-60.0	20.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the Modbus-RTU module communication time. Note: If the Modbus-RTU module does not receive any data within the time set by this parameter, F67-1/F68-1 (External bus timeout fault) can be reported.								

n12 CANopen module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-00	Expansion slot selection	1752	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1
	Description: Defines the slot position where the CANopen module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-01	Module online state	33884	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current CANopen module. Note: n12-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-02	CANopen node address	1755	0-63	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Displays the node address of current CANopen module. Note: The valid range is 1 to 63. The value 0 is invalid. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-03	CANopen baud rate	1756	Refer to "Value"	5	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 20 kbps 1: 50 kbps 2: 100 kbps 4: 250 kbps 5: 500 kbps								

	3：125 kbps　　6：1 Mbps								
	Description： Defines the communication baud rate of the CANopen module. Note: The communication baud rate must be consistent with the setting of the host controller. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-04	Maximum interval of adjacent RPDO frames	33090	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Reserved								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-05	Reception error count per unit time	33091	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Reserved								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-06	Transmission error count per unit time	33092	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Reserved								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-07	Enter OP automatically upon power-on	1760	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Disabled 1：Enabled								
	Description： Defines whether to enter OP automatically upon power-on. Value description: 0: Disabled 1: Enable - Data is sent to the master automatically upon power-on.								

	Note: After setting, power off and on the control circuit again.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-08	Transmitting boot-up upon communication timeout	1761	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to transmit boot-up instructions upon communication timeout. Value description: 0: Disabled 1: Enable - The boot-up instruction is sent cyclically to the master after offline. Note: After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-09	Communication timeout time	1762	0.0-60.0	0.0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the communication timeout of the CANopen module. Note: If the module does not receive any data within the time set by this parameter, F67-1/F68-1 (External bus timeout) can be reported. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-10	CANopen configuration source	1763	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Default 1: Custom								
	Description: Defines the CANopen configuration source.								

	Value description: 0: Default configuration - The PDO is configured by the master. 1: Custom configuration - The PDO is configured by n12-11 to n12-38. Note: After setting, power off and on the control circuit again.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-11	RPDO1 CAN-ID	3055	0x0180-0x057F	0x0200	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines RPDO1 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-12	RPDO1 mode	3059	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the RPDO1 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-13	Number of RPDO1 mapping	3063	0-4	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of RPDO1 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-14	RPDO2 CAN-ID	3056	0x0180-0x057F	0x0300	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines RPDO2 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-15	RPDO2 mode	3060	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the RPDO2 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-16	Number of RPDO2 mapping	3064	0-4	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of RPDO2 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-17	RPDO3 CAN-ID	3057	0x0180-0x057F	0x0400	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines RPDO3 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-18	RPDO3 mode	3061	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the RPDO3 mode.								

	Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-19	Number of RPDO3 mapping	3065	0-4	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of RPDO3 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-20	RPDO4 CAN-ID	3058	0x0180-0x057F	0x0500	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines RPDO4 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-21	RPDO4 mode	3062	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the RPDO4 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-22	Number of RPDO4 mapping	3066	0-4	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of RPDO4 mapping objects. Note:								

	This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-23	TPDO1 CAN-ID	3039	0x0180-0x057F	0x0180	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines TPDO1 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-24	TPDO1 mode	3043	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO1 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-25	Number of TPDO1 mapping	3047	0-4	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of TPDO1 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-26	TPDO1 transmission interval	3051	1-65535	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO1 transmission interval. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n12-27	TPDO2 CAN-ID	3040	0x0180-0x057F	0x0280	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines TPDO2 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-28	TPDO2 mode	3044	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO2 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-29	Number of TPDO2 mapping	3048	0-4	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of TPDO2 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-30	TPDO2 transmission interval	3052	1-65535	50	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO2 transmission interval. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-	TPDO3 CAN-ID	3041	0x0180-	0x0380	Unsigned	1	Real time	General	Effective

31			0x057F		16 bit		changes	user	in real time
	Description: Defines TPDO3 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-32	TPDO3 mode	3045	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO3 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-33	Number of TPDO3 mapping	3049	0-4	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of TPDO3 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-34	TPDO3 transmission interval	3053	1-65535	1000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO3 transmission interval. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-35	TPDO4 CAN-ID	3042	0x0180-0x057F	0x0480	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines TPDO4 CAN-ID. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-36	TPDO4 mode	3046	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO4 mode. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-37	Number of TPDO4 mapping	3050	0-4	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the number of TPDO4 mapping objects. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n12-38	TPDO4 transmission interval	3054	1-65535	1000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the TPDO4 transmission interval. Note: This parameter is active when n12-10 is set to 1. After setting, power off and on the control circuit again.								

n13 EtherNet module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-	Expansion slot	1764	Refer to	0	Unsigned	1	Shutdown	General	Effective in

00	selection		"Value"		16 bit		change	user	real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position of the EtherNet module. Value description: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1 Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.									

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-01	Module online state	33885	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current EtherNet module. Note: n13-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-03	TCP/IP address 1	1767	0-255	192	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines local TCP/IP address 1. Note: This parameter must be the same as the networked TCP/IP address 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-04	TCP/IP address 2	1768	0-255	168	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines local TCP/IP address 2. Note: This parameter must be the same as the networked TCP/IP address 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-05	TCP/IP address 3	1769	0-255	10	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines local TCP/IP address 3. Note: This parameter must be the same as the networked TCP/IP address 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-06	TCP/IP address 4	1770	0-255	253	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines local TCP/IP address 4. Note: This parameter must be differ from the networked TCP/IP address 4 of other objects.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-07	TCP/IP subnet mask address 1	2114	0-255	255	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the local subnet mask address 1. Note: This parameter is generally set to 255.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-08	TCP/IP subnet mask address 2	2115	0-255	255	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Description: Defines the local subnet mask address 2. Note: This parameter is generally set to 255.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-09	TCP/IP subnet mask address 3	2116	0-255	255	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the local subnet mask address 3. Note: This parameter is generally set to 255.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-10	TCP/IP subnet mask address 4	2117	0-255	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the local subnet mask address 4. Note: This parameter is generally set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-11	TCP/IP gateway address 1	2118	0-255	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the networked TCP/IP gateway address 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-12	TCP/IP gateway address 2	2119	0-255	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the networked TCP/IP gateway address 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-	TCP/IP	2120	0-255	0	Unsigned	1	Shutdown	General	Effective in

13	gateway address 3				16 bit		change	user	real time
	Description: Defines the networked TCP/IP gateway address 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n13-14	TCP/IP gateway address 4	2121	0-255	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the networked TCP/IP gateway address 4.								

n14 EtherCAT module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-00	Expansion slot selection	1776	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position where the EtherCAT module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-01	Module online state	33886	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current EtherCAT module.								

	Note: n14-00 needs to be set correctly before the module is displayed as online.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-02	EtherCAT slave name	1779	0-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Used to set and display EtherCAT slave name. Note: The master name is assigned by the EtherCAT master automatically. It is not recommended to write the name manually.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-03	EtherCAT slave alias	1780	0-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Used to set and display EtherCAT slave alias. Note: This parameter is active when the alias setting function switch (n14-06) is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-04	Number of sync interrupts allowed by EtherCAT	1781	4-20	4	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of sync interrupts allowed by EtherCAT. Note: F67-1/F68-1 (External bus timeout fault) is reported after the number of sync interrupts exceeds the allowable number.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-06	Function switch for alias setting	1783	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Set by n14-03 1: Set by host controller master								
	Description: Used to set the EtherCAT slave alias setting function switch.								

	Value description: 0: Set by n14-03 - The alias set by n14-06 [EtherCAT slave site alias] is active. 1: Set by host controller master - The alias is assigned by EtherCAT master.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-11	Number of reception errors of port 1_0	33336	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the number of reception errors of port 1_0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-12	Number of invalid frames over port 1_0	33337	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the number of invalid frames of EtherCAT port 1_0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-13	Maximum number of transmission errors of port 1_0	33338	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the maximum number of transmission errors of port 1_0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-14	Number of PDI and processing unit errors	33339	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the number of PDI and processing unit errors.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-15	Number of link loss events of port 1_0	33340	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the number of link loss events of EtherCAT port 1_0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n14-16	Number of sync loss	33341	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the number of EtherCAT sync signal loss events.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-17	Application layer fault code	33342	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the EtherCAT application layer fault code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-18	State machine & port link state	33343	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Displays the EtherCAT state machine and port link status.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n14-22	InoBus scheduling cycle	6717	500-1000	1000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the InoBus scheduling cycle.								

n15 HDVN module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-00	Expansion slot selection	1788	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description:								

	Used to set the slot position where the HDVN module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-01	Module online state	33887	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of HDVN module. Note: n15-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-02	HDVN node address configuration	1791	0-63	63	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the current HDVN node address.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-03	Actual address of HDVN node	35552	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the actual address of the current HDVN node.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-04	HDVN node baud rate configuration	1792	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 125 kbps 1: 250 kbps 2: 500 kbps 3: Auto-tuned								

	Description: Defines the communication baud rate of current HDVN node. Note: The communication baud rate must be consistent with the setting of the host controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-05	Actual baud rate of HDVN node	35553	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: 125 kbps 1: 250 kbps 2: 500 kbps 3: Auto-tuned								
	Description: Displays the actual communication baud rate of current HDVN node. Note: The communication baud rate must be consistent with the setting of the host controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-06	Number of I/O connection input words	4185	0-40	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of I/O connection input words of the current HDVN node. Note: It can be set to 40 words, but only 16 words are valid.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-07	Actual number of I/O input words	35554	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the actual number of input words of the I/O connection of the current HDVN node. Note: It can be set to 40 words, but only 16 words are valid.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n15-08	Number of I/O connection output words	4186	0-40	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the number of I/O output words of the current HDVN node. Note: It can be set to 40 words, but only 16 words are valid.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-09	Actual number of I/O output words	35555	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of I/O output words of the current HDVN node. Note: It can be set to 40 words, but only 16 words are valid.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-10	HDVN feature code	4188	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines HDVN feature code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-11	Info display timeout period	4187	0.0-60.0	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the info display timeout period.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-12	Bus offline count threshold	1793	0.0-60.0	0.3	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the bus offline count threshold.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-	Communication	1794	Refer to	1	Unsigned	1	Shutdown	General	Effective

13	offline action		"Value"		16 bit		change	user	in real time
	Value: 0: Keep offline 1: Reset and continue communication								
	Description: Used select the function after the bus is offline.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-14	Vendor ID	1795	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the vendor ID.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-15	Product type	1796	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the product type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-16	Product code	1797	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the product code.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-17	Major revision	1798	0-255	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the major revision.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n15-18	Minor revision	1799	0-255	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description:								

	Defines the minor revision.

n16 PROFIBUS-DP module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n16-00	Expansion slot selection	1800	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position of the PROFIBUS DP module. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n16-01	Module online state	33888	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current PROFIBUS-DP module. Note: n16-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n16-02	Expansion card station number	1803	1-125	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the station number of the current PROFIBUS-DP module. Note: The station number within the same network cannot be the same as other modules.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n16-09	Feature code	1810	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Default 1: 0806 2: 0956 3: 8045 4: 0812 5: 0815 6: 6012 7: 80b5 8: 4149 9: 0572 10: 4150 11: 0612+JH 12: 0812+SL 13: 0959v2.145 14: 0959v2.161 15: 7531 16: 9500 17: 8116 18: 80E5 19: 817B 20: 8300								
	Description: Defines the feature code of current PROFIBUS-DP module. Note: Used to adapt to different inverter models. When this parameter is set to 0, the inverter module is adapted automatically.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n16-10	PROFIBUS-DP data check bit	1811	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: PZD1.bit10 (default) 1: Off 2: PZD1.bit0 3: PZD1.bit1 4: PZD1.bit2 5: PZD1.bit3 6: PZD1.bit4 7: PZD1.bit5 8: PZD1.bit6 9: PZD1.bit7 10: PZD1.bit8 11: PZD1.bit9 12: PZD1.bit10 13: PZD1.bit11 14: PZD1.bit12 15: PZD1.bit13 16: PZD1.bit14 17: PZD1.bit15								
	Description: Defines the data check bit of the current PROFIBUS-DP module. Note: This parameter is used to detect data validity. If data validity check is enabled, if this parameter is set to "0: Default PZD1.bit10", the master needs to write 1 to bit10 of PZD1. When the check bit is incorrect, F67/68-4 (PZD1 data check error of adapter A/B in PROFIBUS-DP communication) is reported.								

n17 PROFINET I/O module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n17-	Expansion	1812	Refer to	0	Unsigned	1	Shutdown	General	Effective in

00	slot selection		"Value"		16 bit		change	user	real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position where the PROFINET I/O module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n17-01	Module online state	33889	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current PROFINET I/O module. Note: n17-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n17-03	MAC address word 1	34833	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: .								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n17-04	MAC address word 2	34834	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the MAC address word 2 of the current PROFINET I/O module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n17-05	MAC address word 3	34835	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the MAC address word 3 of the current PROFINET I/O module.								

n18 Custom communication module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-00	Expansion slot selection	2163	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position of the custom communication module. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-01	Module online state	33925	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online 2: Not supported								
	Description: Displays the status of the custom communication module. Note: n18-00 and n18-03 must be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-02	Expansion slot module type	33490	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: No expansion card 17: I/O module HIO-10 32: Encoder detection module PG-10 64: HINT (HE200 rectifier) 96: HOFR module 112: Profibus-DP module 113: CANopen module 117: Profinet IO module 118: EtherCAT module 121: EtherNet module 122: DeviceNet module								

	35：Encoder detection module PG-40 36：Encoder detection module PG-50 48：Synchronous voltage measurement module HSVM-10 49：Synchronous voltage measurement module HSVM-20 114：CANLink module 115：Modbus-RTU module 116：Modbus TCP module 123：CAN monitoring module 124：IBA 125：HYAS								
	Description： Displays the module type of the custom communication module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-03	Custom communication module ID setting	3828	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description： Defines the ID of the current custom communication module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-11	Custom communication card parameter 1	2166	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description： Defines custom communication card parameter 1. Note: Configure based on the corresponding user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-12	Custom communication card parameter 2	2164	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description： Defines custom communication card parameter 2. Note: Configure based on the corresponding user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-13	Custom communication card parameter 3	2165	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Description: Defines custom communication card parameter 3. Note: Configure based on the corresponding user guide.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-14	Custom communication card parameter 4	2167	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 4. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-15	Custom communication card parameter 5	2168	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 5. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-16	Custom communication card parameter 6	2169	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 6. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-17	Custom communication card parameter 7	2170	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 7.								

	Note: Configure based on the corresponding user guide.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-18	Custom communication card parameter 8	2171	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 8. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-19	Custom communication card parameter 9	2172	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 9. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-20	Custom communication card parameter 10	2173	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 10. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-21	Custom communication card parameter 11	2174	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 11. Note:								

	Configure based on the corresponding user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-22	Custom communication card parameter 12	2345	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 12. Note: Configure based on the corresponding user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-23	Custom communication card parameter 13	2346	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 13. Note: Configure based on the corresponding user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-24	Custom communication card parameter 14	2347	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 14. Note: Configure based on the corresponding user guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-25	Custom communication card parameter 15	2348	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 15. Note: Configure based on the corresponding user guide.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n18-26	Custom communication card parameter 16	2349	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 16. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-27	Custom communication card parameter 17	2350	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 17. Note: Configure based on the corresponding user guide.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n18-28	Custom communication card parameter 18	2351	0-65535	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines custom communication card parameter 18. Note: Configure based on the corresponding user guide.								

n19 Synchronous voltage detection module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-00	Expansion slot selection	2236	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3								

	3：Expansion slot 1_3　　7：Expansion slot 3_1
	Description： Defines the slot position where the synchronous voltage detection module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-01	Module online state	33945	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：Offline 1：Online								
	Description： Displays the status of the current synchronous voltage detection module. Note: n19-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-02	[HSVM-10] voltage sampling frequency	2237	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：40 K sampling frequency 1：80 K sampling frequency 2：160 K sampling frequency 3：320 K sampling frequency								
	Description： Defines the voltage sampling frequency of the synchronous voltage detection module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-03	[HSVM-10] voltage sampling delay	2238	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Not delayed 1：Delayed								
	Description： Defines whether voltage sampling of the synchronous voltage detection module is delayed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-04	[HSVM-10] number of data entries received by module	33946	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of data received by the synchronous voltage detection module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-05	[HSVM-10] reserved	33947	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
n19-06	[HSVM-10] reserved	33948	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
n19-07	[HSVM-10] module Usr sampling AD	33949	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the Usr sampling AD of the synchronous voltage detection module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-08	[HSVM-10] module Ust sampling AD	33950	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the Ust sampling AD of the synchronous voltage detection module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-09	[HSVM-10] module temperature sampling AD	33951	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature sampling AD of synchronous voltage detection module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n19-11	HSVM wiring error detection time	1596	0.0-5.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the detection time of wiring error of the synchronous voltage detection module. Note: When it is set to 0, the related fault is shielded.

n20 Grid voltage detection module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-00	Expansion slot selection	1585	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position where the grid voltage detection module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-01	Module online state	35945	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current grid voltage detection module. Note: n20-00 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-02	[HSVM-10] voltage sampling frequency	1586	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value: 0: 40 K sampling frequency 1: 80 K sampling frequency 2: 160 K sampling frequency 3: 320 K sampling frequency
	Description: Defines the voltage sampling frequency of the grid voltage detection module.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-03	[HSVM-10] voltage sampling delay	1587	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Not delayed 1: Delayed								
	Description: Defines whether the voltage sampling of the grid voltage detection module is delayed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-04	[HSVM-10] number of data entries received by module	34085	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the number of data received by the grid voltage detection module.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-05	[HSVM-10] reserved	34086	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
n20-06	[HSVM-10] reserved	34087	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
n20-07	[HSVM-10] module Usr sampling AD	34088	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the AD sampled by the grid voltage detection module Usr.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-	[HSVM-10]	34089	0-65535	0	Unsigned	1	Cannot be	General	Effective

08	module Ust sampling AD				16 bit		changed	user	in real time
	Description: Displays the sampling AD of the grid voltage detection module Ust.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-09	[HSVM-10] module temperature sampling AD	34090	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the temperature sampling AD of the grid voltage detection module.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n20-11	HSVM wiring error detection time	1588	0.0-5.0	1.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the detection time for wiring error of the grid voltage detection module. Note: When it is set to 0, the related fault is shielded.								

n22 Optical fiber router control module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-00	Communication network selection	2922	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Stop 1: Start Others: B connector								
	Description: Defines whether the communication network is enabled.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n22-01	Communication interrupt detection time	2955	0.00-60.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the communication interrupt detection time. Note: F83-6/7/8 (Optical fiber synchronous expansion module: Nodes A/B/C for receiving data are interrupted) is reported when communication interrupt duration exceeds the value of this parameter.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-02	Expansion slot selection	2923	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the slot position where the optical fiber routing control module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-03	Module online state	34303	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline 1: Online								
	Description: Displays the status of the current optical fiber routing control module. Note: n22-02 needs to be set correctly before the module is displayed as online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-04	Online node address on communication network	33512	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the online node address of the current optical fiber routing control module. Note: This parameter is used to view the nodes online in the communication network when you set the node address 1...node address 11 that correspond to bit0...bit10 of the node. The local node is set by n22-05.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-05	Local address	2924	0-11	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the local node address. Note: bit0 to bit10 of n22-04 correspond to node addresses 1 to 11 respectively. You cannot set a node that is online.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-06	Selection of data reception source node A	2925	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Address 1 2: Address 2 3: Address 3 4: Address 4 5: Address 5 6: Address 6 7: Address 7 8: Address 8 9: Address 9 10: Address 10 11: Address 11								
	Description: Defines the node address of the data reception source A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n22-07	Selection of data reception source node B	2926	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
1: Address 1
2: Address 2
3: Address 3
4: Address 4
5: Address 5
6: Address 6
7: Address 7
8: Address 8
9: Address 9
10: Address 10
11: Address 11

Description:

Defines the node address of the data reception source B.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-08	Selection of data reception source node C	2927	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid
1: Address 1
2: Address 2
3: Address 3
4: Address 4
5: Address 5
6: Address 6
7: Address 7
8: Address 8
9: Address 9
10: Address 10
11: Address 11

Description:

Defines the node address of the data reception source C.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-09	Selection of received data 1	2928	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8

Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C	

Description:

Defines the source of received data 1.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-17 (Proportion of received data 1), will be displayed in U7-55 (Optical fiber synchronous expansion module.PZD1). bit0 to bit15 of PZD1 can be monitored through U0-84 to U0-99.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-10	Selection of received data 2	2929	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8
Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C

Description:

Defines the source of received data 2.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-18 (Proportion of received data 2), will be displayed in U7-56 (Optical fiber synchronous expansion module.PZD2).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n22-11	Selection of received data 3	2930	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8
Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C

Description:

Defines the source of received data 3.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-19 (Proportion of received data 3), will be displayed in U7-57 (Optical fiber synchronous expansion module.PZD3).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-12	Selection of received data 4	2931	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8

Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C	

Description:

Defines the source of received data 4.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-20 (Proportion of received data 4), will be displayed in U7-58 (Optical fiber synchronous expansion module.PZD4).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-13	Selection of received data 5	2932	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8
Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C

Description:

Defines the source of received data 5.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-21 (Proportion of received data 5), will be displayed in U7-59 (Optical fiber synchronous expansion module.PZD5).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n22-14	Selection of received data 6	2933	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8
Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C

Description:

Defines the source of received data 6.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-22 (Proportion of received data 6), will be displayed in U7-60 (Optical fiber synchronous expansion module.PZD6).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-15	Selection of received data 7	2934	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8

Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C	

Description:

Defines the source of received data 7.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-23 (Proportion of received data 7), will be displayed in U7-61 (Optical fiber synchronous expansion module.PZD7).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-16	Selection of received data 8	2935	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Data selection	1: Data 1 2: Data 2 3: Data 3 4: Data 4 5: Data 5 6: Data 6 7: Data 7 8: Data 8
Tens-	Data source node	0: Disabled 1: Node A 2: Node B 3: Node C

Description:

Defines the source of received data 8.

Note:

Data selection 1-8 corresponds to output data 1-8 of the selected node.

The received data, after being multiplied by n22-24 (Proportion of received data 8), will be displayed in U7-62 (Optical fiber synchronous expansion module.PZD8).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n22-17	Proportion of received data 1	2936	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 1. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-17 (Proportion of received data 1), will be displayed in U7-55 (Optical fiber synchronous expansion module.PZD1). bit0 to bit15 of PZD1 can be monitored through U0-84 to U0-99.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-18	Proportion of received data 2	2937	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 2. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-18 (Proportion of received data 2), will be displayed in U7-56 (Optical fiber synchronous expansion module.PZD2).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-19	Proportion of received data 3	2938	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 3. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-19 (Proportion of received data 3), will be displayed in U7-57 (Optical fiber synchronous expansion module.PZD3).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-	Received data 4	2939	-8.000 to	1.000	Signed 16	0.001	Real time	General	Effective in real

20	ratio		+8.000		bits		changes	user	time
	Description: Defines the proportion of received data 4. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-20 (Proportion of received data 4), will be displayed in U7-58 (Optical fiber synchronous expansion module.PZD4).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-21	Received data 5 ratio	2940	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 5. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-21 (Proportion of received data 5), will be displayed in U7-59 (Optical fiber synchronous expansion module.PZD5).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-22	Received data 6 ratio	2941	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 6. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-22 (Proportion of received data 6), will be displayed in U7-60 (Optical fiber synchronous expansion module.PZD6).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-23	Received data 7 ratio	2942	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time

	Description: Defines the proportion of received data 7. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-23 (Proportion of received data 7), will be displayed in U7-61 (Optical fiber synchronous expansion module.PZD7).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-24	Received data 8 ratio	2943	-8.000 to +8.000	1.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the proportion of received data 8. Note: Data selection 1-8 corresponds to output data 1-8 of the selected node. The received data, after being multiplied by n22-24 (Proportion of received data 8), will be displayed in U7-62 (Optical fiber synchronous expansion module.PZD8).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-25	Transmission data 1 selection	2944	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of transmission data 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-26	Transmission data 2 selection	2945	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector
	Description： Defines the source of transmission data 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-27	Transmission data 3 selection	2946	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the source of transmission data 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-28	Transmission data 4 selection	2947	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the source of transmission data 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-29	Transmission data 5 selection	2948	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the source of transmission data 5.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n22-30	Transmission data 6 selection	2949	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of transmission data 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-31	Transmission data 7 selection	2950	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of transmission data 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n22-32	Transmission data 8 selection	2951	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of transmission data 8.								

n23 HIO module 1 parameter setting (HIO-10)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n23-00	DI/DIO input filter time	3442	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Used to set the DI/DIO input filter time. Note: Pulse jumps lower than the filter time will be filtered out.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-09	DIO positive/negative logic	3460	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the physical status value of the corresponding DI value will be inverted. n7-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-10	DIO1 as DO signal source	3463	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO1 is used as the DO signal. Value description: 0: Used as DI - DIO1 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-11	DIO1 switch-on delay	3466	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-12	DIO1 switch-off delay	3469	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-13	DIO2 as DO signal source	3472	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-14	DIO2 switch-on delay	3475	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-15	DIO2 switch-off delay	3478	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-20	RO positive/negative logic	3493	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description:

Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:

When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n7-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-21	RO1 signal source	3496	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Low level

1: High level

Others: B connector

Description:

Defines RO1 signal source.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-22	RO1 switch-on delay	3499	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.

	Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-23	RO1 switch-off delay	3502	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:
Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

Note:
The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-35	Selection when AI value lower than minimum input value	3520	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Selection when AI1 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Hundreds-	Selection when AI3 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%

Description:
Defines the selection when the AI value is lower than the minimum input value.

Note:
When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value.
When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-	AI open circuit	3523	Refer to	0	Unsigned	1	Shutdown	General	Effective

36	monitoring		"Value"		16 bit		change	user	in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled
Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled
Hundreds-	AI3 open circuit monitoring	0: Disabled 1: Enabled

Description:

Used to enable or disable open circuit monitoring, which is active only when the signal type is 4 mA to 20 mA.

Note:

After AI1/2 disconnection monitoring is enabled, the AI1/AI2 input value is lower than the value of n23-48/n23-58 and continues to exceed the length of n23-49/n23-59. The alarm AI1 disconnection A170-4 will be reported. To monitor this alarm, you can view it in the oscilloscope through U4-36/U4-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-37	Zero-crossing threshold of AI setting	3526	0-1	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time

Description:

Defines the zero-crossing threshold of AI setting.

Note:

When the AI input proportion is lower than the threshold, the AI input proportion is 0%.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-40	AI1 selection	3529	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Inhibited

1: Enabled

Others: B connector

Description:

	Defines whether to enable AI1. Note: When disabled, AI1 input proportion is set to 0 forcibly.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-41	AI1 type	3532	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI1. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-42	Minimum input value of AI1 curve	3535	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI1 curve, which is used to calibrate AI1. Note: n23-42 and n23-44 limit the range of AI1 input (the unit is V or mA according to n23-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-42, the default output is n23-43, or the output can be set to 0.0%, which is the bit value of the ones position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-44, the default output is n23-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-43	Minimum input proportion of AI1 curve	3538	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1. Note: n23-42 and n23-44 limit the range of AI1 input (the unit is V or mA according to n23-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-42, the default output is n23-43, or the output can be set to 0.0%, which is the bit value of the ones position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-44, the default output is n23-45.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-44	Maximum input value of AI1 curve	3541	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1. Note: n23-42 and n23-44 limit the range of AI1 input (the unit is V or mA according to n23-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-42, the default output is n23-43, or the output can be set to 0.0%, which is the bit value of the ones position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-44, the default output is n23-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-45	Maximum input proportion of AI1 curve	3544	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: n23-42 and n23-44 limit the range of AI1 input (the unit is V or mA according to n23-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-42, the default output is n23-43, or the output can be set to 0.0%, which is the bit value of the ones position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-44, the default output is n23-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-46	AI1 filter time	3547	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description: Defines the AI1 filter time. Note: Defines the AI filter time, which can remove interference but generate a delay effect.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-47	AI1 denoising threshold	3550	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the AI1 denoising threshold. Note: When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-48	AI1 open circuit monitoring threshold	3553	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring threshold. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n23-48/n23-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n23-49/n23-59. To monitor this alarm, you can view it in the oscilloscope through U4-36/U4-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-49	AI1 open circuit monitoring delay	3556	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring delay. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n23-48/n23-58 (AI open circuit monitoring threshold) for a period longer than the time defined								

	by n23-49/n23-59. To monitor this alarm, you can view it in the oscilloscope through U4-36/U4-37.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-50	AI2 selection	3559	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI2. When this parameter is disabled, AI2 is set to 0 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-51	AI2 type	3562	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI2. Note: The parameter selection of AI type must match the hardware DIP (jumper).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-52	Minimum input value of AI2 curve	3565	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note: n23-52 and n23-54 limit the range of AI2 input (the unit is V or mA according to n23-51). Within the value range, the output								

	percentage is linearly converted. When the input value is lower than the value of n23-52, the default output is n23-53, or the output can be set to 0.0%, which is the bit value of the tens position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-54, the default output is n23-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-53	Minimum input proportion of AI2 curve	3568	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2. Note: n23-52 and n23-54 limit the range of AI2 input (the unit is V or mA according to n23-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-52, the default output is n23-53, or the output can be set to 0.0%, which is the bit value of the tens position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-54, the default output is n23-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-54	Maximum input value of AI2 curve	3571	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: n23-52 and n23-54 limit the range of AI2 input (the unit is V or mA according to n23-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-52, the default output is n23-53, or the output can be set to 0.0%, which is the bit value of the tens position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-54, the default output is n23-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-55	Maximum input proportion of AI2 curve	3574	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2. Note:								

	n23-52 and n23-54 limit the range of AI2 input (the unit is V or mA according to n23-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n23-52, the default output is n23-53, or the output can be set to 0.0%, which is the bit value of the tens position of n23-35 (Selection when AI value lower than the minimum input value). When the input is higher than n23-54, the default output is n23-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-56	AI2 filter time	3577	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI2 filter time. Note: Defines the AI filter time, which can remove interference but generate a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-57	AI2 denoising threshold	3580	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: This parameter defines the AI2 denoising threshold. Note: When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-58	AI2 open circuit monitoring threshold	3583	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring threshold. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n23-48/n23-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n23-49/n23-59. To monitor this alarm, you can view it in the oscilloscope through U4-36/U4-37.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n23-59	AI2 open circuit monitoring delay	3586	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring delay. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n23-48/n23-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n23-49/n23-59. To monitor this alarm, you can view it in the oscilloscope through U4-36/U4-37.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-70	AO1 signal source	3619	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO1 output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-71	AO1 type	3622	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO1 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n23-72	Minimum output proportion of AO1 curve	3625	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n23-72 and n23-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (23-73) and the maximum output value of the nAO1 curve (23-75), the output value is converted linearly (the unit is V or mA, depending on the value of n23-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-73	Minimum output value of AO1 curve	3628	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n23-72 and n23-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (23-73) and the maximum output value of the nAO1 curve (23-75), the output value is converted linearly (the unit is V or mA, depending on the value of n23-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-74	Maximum output proportion of AO1 curve	3631	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n23-72 and n23-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (23-73) and the maximum output value of the nAO1 curve (23-75), the output value is converted linearly (the unit is V or mA, depending on the value of n23-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n23-75	Maximum output value of AO1 curve	3634	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n23-72 and n23-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (23-73) and the maximum output value of the nAO1 curve (23-75), the output value is converted linearly (the unit is V or mA, depending on the value of n23-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-80	AO2 signal source	3637	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO2 output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-81	AO2 type	3640	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO2 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n23-82	Minimum output proportion of AO2 curve	3643	-600 to +6 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n23-82 and n23-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (23-83) and the maximum output value of the nAO2 curve (23-85), the output value is converted linearly (the unit is V or mA, depending on the value of n23-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-83	Minimum output value of AO2 curve	3646	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n23-82 and n23-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (23-83) and the maximum output value of the nAO2 curve (23-85), the output value is converted linearly (the unit is V or mA, depending on the value of n23-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-84	Maximum output proportion of AO2 curve	3649	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n23-82 and n23-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (23-83) and the maximum output value of the nAO2 curve (23-85), the output value is converted linearly (the unit is V or mA, depending on the value of n23-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n23-	Maximum output	3652	0.000-	10.000	Unsigned	0.001	Real time	General	Effective in real

85	value of AO2 curve		20.000		16 bit		changes	user	time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n23-82 and n23-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (23-83) and the maximum output value of the nAO2 curve (23-85), the output value is converted linearly (the unit is V or mA, depending on the value of n23-81).								

n24 HIO module 1 parameter setting (HIO-20)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-00	DI/DIO input filter time	3442	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Used to set the DI/DIO input filter time. Note: Pulse jumps lower than the filter time will be filtered out.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-09	DIO positive/negative logic	3460	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

	bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
	bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the corresponding DI terminal signal source will be inverted. n7-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-10	DIO1 as DO signal source	3463	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Used as DI

Others: B connector

Description:

Defines whether DIO1 is used as the DO signal.

Value description:

0: Used as DI - DIO1 is used as DI by default.

Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-11	DIO1 switch-on delay	3466	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

Note:

The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n24-12	DIO1 switch-off delay	3469	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-13	DIO2 as DO signal source	3472	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-14	DIO2 switch-on delay	3475	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n24-15	DIO2 switch-off delay	3478	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-16	DIO3 as DO signal source	3481	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO3 is used as the DO signal. Value description: 0: Used as DI - DIO3 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-17	DIO4 as DO signal source	3484	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO4 is used as the DO signal. Value description:								

	0: Used as DI - DIO4 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-18	DIO5 as DO signal source	3487	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Used as DI

Others: B connector

Description:

Defines whether DIO5 is used as the DO signal.

Value description:

0: Used as DI

- Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-20	RO positive/negative logic	3493	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description:

Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:

	When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n7-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-21	RO1 signal source	3496	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO1 signal source. Others: B connector - Select the bit connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-22	RO1 switch-on delay	3499	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-23	RO1 switch-off delay	3502	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-24	RO2 signal source	3505	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO2 signal source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-25	RO2 switch-on delay	3508	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n24-26	RO2 switch-off delay	3511	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

n25 HIO module 1 parameter setting (HIO-30)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-00	DI/DIO input filter time	3442	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time

Description:

Defines the DI/DIO input filter time. Pulse jumps lower than the filter time will be filtered.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-01	DI positive/negative logic	3445	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DI1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DI2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit2	DI3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
Bit 03	DI4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit4	DI5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
Bit 05	DI6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the corresponding DI terminal signal source will be inverted. n7-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-02	DI1 switch-on delay	3448	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

	Description： Defines the switch-on delay of DI1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-03	DI1 switch-off delay	3451	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DI1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-04	DI2 switch-on delay	3454	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-on delay of DI2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-05	DI2 switch-off delay	3457	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DI2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note:								

	The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-09	DIO positive/negative logic	3460	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DIO1 to DIO6.

Note:

When the bit is set to 1, the physical state value of the corresponding DIO terminal will be inverted. n7-12/n7-12 is used to display the processed input/output status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-10	DIO1 as DO signal source	3463	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Used as DI

Others: B connector

Description:

Defines whether DIO1 is used as the DO signal.

	Value description: 0: Used as DI - DIO1 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-11	DIO1 switch-on delay	3466	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DIO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-12	DIO1 switch-off delay	3469	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-13	DIO2 as DO signal source	3472	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO2 is used as the DO signal.								

	Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-14	DIO2 switch-on delay	3475	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-15	DIO2 switch-off delay	3478	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-16	DIO3 as DO signal source	3481	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO3 is used as the DO signal.								

	Value description: 0: Used as DI - DIO3 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-17	DIO4 as DO signal source	3484	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO4 is used as the DO signal. Value description: 0: Used as DI - DIO4 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-18	DIO5 as DO signal source	3487	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO5 is used as the DO signal. Value description: 0: Used as DI - DIO5 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n25-19	DIO6 as DO signal source	3490	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO6 is used as the DO signal. Value description: 0: Used as DI - DIO6 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-20	RO positive/negative logic	3493	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description:

Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:

When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n7-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-	RO1 signal source	3496	Refer to	0	Unsigned	1	Shutdown	General	Effective

21			"Value"		16 bit		change	user	in real time
	Value： 0： Low level 1： High level Others： B connector								
	Description： Defines RO1 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-22	RO1 switch-on delay	3499	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-23	RO1 switch-off delay	3502	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n25-24	RO2 signal source	3505	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO2 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-25	RO2 switch-on delay	3508	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-26	RO2 switch-off delay	3511	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n25-27	RO3 signal source	3514	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Low level 1： High level Others： B connector								
	Description： Defines RO3 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-28	RO4 signal source	3517	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Low level 1： High level Others： B connector								
	Description： Set RO4 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-35	Selection when AI value lower than minimum input value	3520	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Selection when AI1 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Hundreds-	Selection when AI3 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%

Description:

Defines the selection when the AI value is lower than the minimum input value.

Value description:

Ones-: Selection when AI1 lower than the minimum input - The ones, tens, and hundreds are used to set AI1, AI2, and AI3 respectively.

0: Minimum input proportion

1: 0.0%

Tens-: Selection when AI2 lower than the minimum input

0: Minimum input proportion

1: 0.0%

Hundreds-: Selection when AI3 lower than the minimum input

0: Minimum input proportion

1: 0.0%

Note:

When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value. When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-36	AI open circuit monitoring	3523	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled
Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled
Hundreds-	AI3 open circuit monitoring	0: Disabled 1: Enabled

	Description： Used to enable or disable open circuit monitoring, which is active only when the signal type is 4 mA to 20 mA. Value description: Ones-: AI1 open circuit monitoring enable - The ones, tens, and hundreds are used to set AI1, AI2, and AI3 respectively. 0: Disabled 1: Enabled Tens-: AI2 open circuit monitoring 0: Disabled 1: Enabled Hundreds-: AI3 open circuit monitoring enable 0: Disabled 1: Enabled Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-37	Zero-crossing threshold of AI setting	3526	0-1	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description： When the AI input proportion is lower than the threshold, the AI input proportion is 0%.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-40	AI1 selection	3529	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Inhibited 1： Enabled Others： B connector								
	Description： Used to enable or disable AI1. When this parameter is disabled, AI1 is set to 0 forcibly. Value description:								

	0: Disabled 1: Enable Others: B connector - Enable based on the bit connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-41	AI1 type	3532	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI1. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-42	Minimum input value of AI1 curve	3535	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI1 curve, which is used to calibrate AI1. Note: n25-42 and n25-44 limit the range of AI1 input (the unit is V or mA according to n25-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-42, the default output is n25-43, or the output can be set to 0.0%, which is the bit value of the ones position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-44, the default output is n25-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-43	Minimum input proportion of AI1 curve	3538	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1.								

	Note: n25-42 and n25-44 limit the range of AI1 input (the unit is V or mA according to n25-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-42, the default output is n25-43, or the output can be set to 0.0%, which is the bit value of the ones position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-44, the default output is n25-45.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-44	Maximum input value of AI1 curve	3541	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1. Note: n25-42 and n25-44 limit the range of AI1 input (the unit is V or mA according to n25-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-42, the default output is n25-43, or the output can be set to 0.0%, which is the bit value of the ones position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-44, the default output is n25-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-45	Maximum input proportion of AI1 curve	3544	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: n25-42 and n25-44 limit the range of AI1 input (the unit is V or mA according to n25-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-42, the default output is n25-43, or the output can be set to 0.0%, which is the bit value of the ones position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-44, the default output is n25-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-46	AI1 filter time	3547	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description:								

	Defines the AI1 filter time, which can remove interference but generates a delay effect.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-47	AI1 denoising threshold	3550	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI1. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-48	AI1 open circuit monitoring threshold	3553	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-49	AI1 open circuit monitoring delay	3556	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n25-50	AI2 selection	3559	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI2. When this parameter is disabled, AI2 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-51	AI2 type	3562	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI2. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-52	Minimum input value of AI2 curve	3565	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note:								

	n25-52 and n25-54 limit the range of AI2 input (the unit is V or mA according to n25-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-52, the default output is n25-53, or the output can be set to 0.0%, which is the bit value of the tens position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-54, the default output is n25-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-53	Minimum input proportion of AI2 curve	3568	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2. Note: n25-52 and n25-54 limit the range of AI2 input (the unit is V or mA according to n25-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-52, the default output is n25-53, or the output can be set to 0.0%, which is the bit value of the tens position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-54, the default output is n25-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-54	Maximum input value of AI2 curve	3571	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: n25-52 and n25-54 limit the range of AI2 input (the unit is V or mA according to n25-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-52, the default output is n25-53, or the output can be set to 0.0%, which is the bit value of the tens position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-54, the default output is n25-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-55	Maximum input proportion of AI2 curve	3574	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2.								

	Note: n25-52 and n25-54 limit the range of AI2 input (the unit is V or mA according to n25-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-52, the default output is n25-53, or the output can be set to 0.0%, which is the bit value of the tens position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-54, the default output is n25-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-56	AI2 filter time	3577	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI2 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-57	AI2 denoising threshold	3580	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI2. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-58	AI2 open circuit monitoring threshold	3583	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-	AI2 open circuit	3586	0.00-	1.00	Unsigned	0.01	Real time	General	Effective

59	monitoring delay		10.00		16 bit		changes	user	in real time
	Description: Defines AI2 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-60	AI3 selection	3589	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI3. When this parameter is disabled, AI3 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-61	AI3 type	3592	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI3.								

	Note: The parameter selection of AI type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-62	Minimum input value of AI3 curve	3595	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI3 curve, which is used to calibrate AI3. Note: n25-62 and n25-64 limit the range of AI3 input (the unit is V or mA according to n25-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-62, the default output is n25-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-64, the default output is n25-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-63	Minimum input proportion of AI3 curve	3598	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI3 curve, which is used to calibrate AI3. Note: n25-62 and n25-64 limit the range of AI3 input (the unit is V or mA according to n25-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-62, the default output is n25-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-64, the default output is n25-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-64	Maximum input value of AI3 curve	3601	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI3 curve, which is used to calibrate AI3. Note:								

	n25-62 and n25-64 limit the range of AI3 input (the unit is V or mA according to n25-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-62, the default output is n25-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-64, the default output is n25-65.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-65	Maximum input proportion of AI3 curve	3604	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI3 curve, which is used to calibrate AI3. Note: n25-62 and n25-64 limit the range of AI3 input (the unit is V or mA according to n25-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n25-62, the default output is n25-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n25-35 (Selection when AI value lower than the minimum input value). When the input is higher than n25-64, the default output is n25-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-66	AI3 filter time	3607	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI3 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-67	AI3 denoising threshold	3610	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI3. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-68	AI3 disconnection monitoring	3613	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real

	threshold								time
	Description： Defines AI3 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-69	AI3 disconnection monitoring delay	3616	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines AI3 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-4 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n25-48/n25-58/n25-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n25-49/n25-59/n25-69. To monitor this alarm, you can view in the oscilloscope through U4-36/U4-37/U4-38.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-70	AO1 signal source	3619	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the signal source of AO1 output. Value description: 0: 0 Others: K connector - Selected based on the connector								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n25-71	AO1 type	3622	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO1 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-72	Minimum output proportion of AO1 curve	3625	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n25-72 and n25-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-73	Minimum output value of AO1 curve	3628	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n25-72 and n25-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n25-74	Maximum output proportion of AO1 curve	3631	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n25-72 and n25-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-71).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-75	Maximum output value of AO1 curve	3634	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n25-72 and n25-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-71).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-80	AO2 signal source	3637	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO2 output. Value description: 0: 0 Others: K connector - Selected based on the connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-	AO2 type	3640	Refer to	0	Unsigned	1	Shutdown	General	Effective

81			"Value"		16 bit		change	user	in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO2 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-82	Minimum output proportion of AO2 curve	3643	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n25-82 and n25-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-83	Minimum output value of AO2 curve	3646	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n25-82 and n25-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-84	Maximum output proportion of AO2	3649	-600 to +6	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real

	curve		00						time
	Description: Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n25-82 and n25-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-85	Maximum output value of AO2 curve	3652	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n25-82 and n25-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-90	AO3 signal source	3655	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO3 output. Value description: 0: 0 Others: K connector - Selected based on the connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-91	AO3 type	3658	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA
	Description: Defines the AO3 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-92	Minimum output proportion of AO3 curve	3661	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO3 curve, which is used to calibrate the output of AO3. Note: n25-92 and n25-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-93	Minimum output value of AO3 curve	3664	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO3 curve, which is used to calibrate the output of AO3. Note: n25-92 and n25-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-94	Maximum output proportion of AO3 curve	3667	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the maximum output proportion of AO3 curve, which is used to calibrate the output of AO3. Note: n25-92 and n25-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-91).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n25-95	Maximum output value of AO3 curve	3670	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO3 curve, which is used to calibrate the output of AO3. Note: n25-92 and n25-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n25-91).								

n26 HIO module 2 parameter setting (HIO-10)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-00	DI/DIO input filter time	3443	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Used to set the DI/DIO input filter time. Note: Pulse jumps lower than the filter time will be filtered out.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-09	DIO positive/negative logic	3461	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value

bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the physical status value of the corresponding DI value will be inverted. n8-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-10	DIO1 as DO signal source	3464	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Used as DI

Others: B connector

Description:

Defines whether DIO1 is used as the DO signal.

Value description:

0: Used as DI - DIO1 is used as DI by default.

Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-11	DIO1 switch-on delay	3467	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real

									time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-12	DIO1 switch-off delay	3470	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-13	DIO2 as DO signal source	3473	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-14	DIO2 switch-on delay	3476	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real

									time

Description:

Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.

Note:

The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-15	DIO2 switch-off delay	3479	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

Note:

The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-20	RO positive/negative logic	3494	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description:

Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:

	When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n8-14 is used to display the processed status value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-21	RO1 signal source	3497	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO1 signal source. Others: B connector - Select the bit connector.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-22	RO1 switch-on delay	3500	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-23	RO1 switch-off delay	3503	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-35	Selection when AI value lower than minimum input value	3521	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Selection when AI1 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Hundreds-	Selection when AI3 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%

Description:

Defines the selection when the AI value is lower than the minimum input value.

Note:

When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value.

When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-36	AI open circuit monitoring	3524	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled
Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled
Hundreds-	AI3 open circuit monitoring	0: Disabled 1: Enabled

Description:

Used to enable or disable open circuit monitoring, which is active only when the signal type is 4 mA to 20 mA.

Note:

After AI1/AI2 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of

	AI1/AI2 keeps lower than n26-48/n26-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n26-49/n26-59. To monitor this alarm, you can view it in the oscilloscope through U4-39/U4-40.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-37	Zero-crossing threshold of AI setting	3527	0-1	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: Defines the zero-crossing threshold of AI setting. Note: When the AI input proportion is lower than the threshold, the AI input proportion is 0%.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-40	AI1 selection	3530	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Defines whether to enable AI1. Note: When disabled, AI1 input proportion is set to 0 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-41	AI1 type	3533	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description:								

	Defines the input source type of AI1. Note: The parameter selection of AI type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-42	Minimum input value of AI1 curve	3536	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI1 curve, which is used to calibrate AI1. Note: n26-42 and n26-44 limit the range of AI1 input (the unit is V or mA according to n26-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-42, the default output is n26-43, or the output can be set to 0.0%, which is the bit value of the ones position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-44, the default output is n26-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-43	Minimum input proportion of AI1 curve	3539	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1. Note: n26-42 and n26-44 limit the range of AI1 input (the unit is V or mA according to n26-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-42, the default output is n26-43, or the output can be set to 0.0%, which is the bit value of the ones position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-44, the default output is n26-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-44	Maximum input value of AI1 curve	3542	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1.								

	Note: n26-42 and n26-44 limit the range of AI1 input (the unit is V or mA according to n26-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-42, the default output is n26-43, or the output can be set to 0.0%, which is the bit value of the ones position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-44, the default output is n26-45.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-45	Maximum input proportion of AI1 curve	3545	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: n26-42 and n26-44 limit the range of AI1 input (the unit is V or mA according to n26-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-42, the default output is n26-43, or the output can be set to 0.0%, which is the bit value of the ones position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-44, the default output is n26-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-46	AI1 filter time	3548	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI1 filter time. Note: Defines the AI filter time, which can remove interference but generate a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-47	AI1 denoising threshold	3551	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the AI1 denoising threshold. Note:								

	When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-48	AI1 open circuit monitoring threshold	3554	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring threshold. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n26-48/n26-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n26-49/n26-59. To monitor this alarm, you can view it in the oscilloscope through U4-39/U4-40.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-49	AI1 open circuit monitoring delay	3557	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring delay. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n26-48/n26-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n26-49/n26-59. To monitor this alarm, you can view it in the oscilloscope through U4-39/U4-40.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-50	AI2 selection	3560	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Defines whether to enable AI2.								

	Note: When disabled, AI2 input proportion is set to 0 forcibly.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-51	AI2 type	3563	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI2. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-52	Minimum input value of AI2 curve	3566	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note: n26-52 and n26-54 limit the range of AI2 input (the unit is V or mA according to n26-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-52, the default output is n26-53, or the output can be set to 0.0%, which is the bit value of the tens position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-54, the default output is n26-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-53	Minimum input proportion of AI2 curve	3569	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2.								

	Note: n26-52 and n26-54 limit the range of AI2 input (the unit is V or mA according to n26-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-52, the default output is n26-53, or the output can be set to 0.0%, which is the bit value of the tens position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-54, the default output is n26-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-54	Maximum input value of AI2 curve	3572	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: n26-52 and n26-54 limit the range of AI2 input (the unit is V or mA according to n26-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-52, the default output is n26-53, or the output can be set to 0.0%, which is the bit value of the tens position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-54, the default output is n26-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-55	Maximum input proportion of AI2 curve	3575	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2. Note: n26-52 and n26-54 limit the range of AI2 input (the unit is V or mA according to n26-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n26-52, the default output is n26-53, or the output can be set to 0.0%, which is the bit value of the tens position of n26-35 (Selection when AI value lower than the minimum input value). When the input is higher than n26-54, the default output is n26-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-56	AI2 filter time	3578	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI2 filter time.								

	Note: Defines the AI filter time, which can remove interference but generate a delay effect.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-57	AI2 denoising threshold	3581	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: This parameter defines the AI2 denoising threshold. Note: When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-58	AI2 open circuit monitoring threshold	3584	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring threshold. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n26-48/n26-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n26-49/n26-59. To monitor this alarm, you can view it in the oscilloscope through U4-39/U4-40.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-59	AI2 open circuit monitoring delay	3587	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring delay. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2 keeps lower than n26-48/n26-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n26-49/n26-59. To monitor this alarm, you can view it in the oscilloscope through U4-39/U4-40.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-70	AO1 signal source	3620	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO1 output.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-71	AO1 type	3623	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO1 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-72	Minimum output proportion of AO1 curve	3626	-600 to +6 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n26-72 and n26-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (26-73) and the maximum output value of the nAO1 curve (26-75), the output value is converted linearly (the unit is V or mA, depending on the value of n26-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-73	Minimum output value of AO1 curve	3629	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n26-72 and n26-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (26-73) and the maximum output value of the nAO1 curve (26-75), the output value is converted linearly (the unit is V or mA, depending on the value of n26-71).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-74	Maximum output proportion of AO1 curve	3632	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n26-72 and n26-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (26-73) and the maximum output value of the nAO1 curve (26-75), the output value is converted linearly (the unit is V or mA, depending on the value of n26-71).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-75	Maximum output value of AO1 curve	3635	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n26-72 and n26-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (26-73) and the maximum output value of the nAO1 curve (26-75), the output value is converted linearly (the unit is V or mA, depending on the value of n26-71).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n26-80	AO2 signal source	3638	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO2 output.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-81	AO2 type	3641	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO2 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-82	Minimum output proportion of AO2 curve	3644	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n26-82 and n26-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (26-83) and the maximum output value of the nAO2 curve (26-85), the output value is converted linearly (the unit is V or mA, depending on the value of n26-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n26-83	Minimum output value of AO2 curve	3647	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n26-82 and n26-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (26-83) and the maximum output value of the nAO2 curve (26-85), the output value is converted linearly (the unit is V or mA, depending on the value of n26-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-84	Maximum output proportion of AO2 curve	3650	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n26-82 and n26-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (26-83) and the maximum output value of the nAO2 curve (26-85), the output value is converted linearly (the unit is V or mA, depending on the value of n26-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n26-85	Maximum output value of AO2 curve	3653	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n26-82 and n26-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (26-83) and the maximum output value of the nAO2 curve (26-85), the output value is converted linearly (the unit is V or mA, depending on the value of n26-81).								

n27 HIO module 2 parameter setting (HIO-20)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-00	DI/DIO input filter time	3443	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time

Description:

Used to set the DI/DIO input filter time.

Note:

Pulse jumps lower than the filter time will be filtered out.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-09	DIO positive/negative logic	3461	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the physical status value of the corresponding DI value will be inverted. n8-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n27-10	DIO1 as DO signal source	3464	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO1 is used as the DO signal. Value description: 0: Used as DI - DIO1 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-11	DIO1 switch-on delay	3467	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-12	DIO1 switch-off delay	3470	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n27-13	DIO2 as DO signal source	3473	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-14	DIO2 switch-on delay	3476	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-15	DIO2 switch-off delay	3479	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n27-16	DIO3 as DO signal source	3482	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO3 is used as the DO signal. Value description: 0: Used as DI - DIO3 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-17	DIO4 as DO signal source	3485	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO4 is used as the DO signal. Value description: 0: Used as DI - DIO4 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-18	DIO5 as DO signal source	3488	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								

Description：
Defines whether DIO5 is used as the DO signal.

Value description:
0: Used as DI - DIO5 is used as DI by default.
Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-20	RO positive/negative logic	3494	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value：

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description：
Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:
When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n9-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-21	RO1 signal source	3497	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value：
0： Low level
1： High level
Others： B connector

	Description： Defines RO1 signal source. Others: B connector - Select the bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-22	RO1 switch-on delay	3500	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-23	RO1 switch-off delay	3503	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-24	RO2 signal source	3506	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Low level 1： High level Others： B connector								
	Description： Defines RO2 signal source.								

	Others: B connector - Select the bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-25	RO2 switch-on delay	3509	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n27-26	RO2 switch-off delay	3512	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

n28 HIO module 2 parameter setting (HIO-30)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-00	DI/DIO input filter time	3443	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Defines the DI/DIO input filter time. Pulse jumps lower than the filter time will be filtered.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n28-01	DI positive/negative logic	3446	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DI1 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit1	DI2 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit2	DI3 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit3	DI4 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit4	DI5 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit5	DI6 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the corresponding DI terminal signal source will be inverted. n8-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-02	DI1 switch-on delay	3449	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-on delay of DI1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.

Note:

The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-	DI1 switch-off delay	3452	0.00-	0.00	Unsigned	0.01	Shutdown	General	Effective in real

03			360.00		16 bit		change	user	time
	Description: Defines the switch-off delay of the DI1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-04	DI2 switch-on delay	3455	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DI2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-05	DI2 switch-off delay	3458	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DI2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-09	DIO positive/negative logic	3461	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: Bit | Name | Value								

bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.	
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.	
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.	
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.	
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.	
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.	

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DIO1 to DIO6.

Note:

When the bit is set to 1, the physical state value of the corresponding DIO terminal will be inverted. n8-12/n8-14 is used to display the processed input/output status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-10	DIO1 as DO signal source	3464	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Used as DI

Others: B connector

Description:

Defines whether DIO1 is used as the DO signal.

Value description:

0: Used as DI - DIO1 is used as DI by default.

Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-11	DIO1 switch-on delay	3467	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real

									time
	Description： Defines the switch-on delay of DIO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-12	DIO1 switch-off delay	3470	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-13	DIO2 as DO signal source	3473	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-14	DIO2 switch-on delay	3476	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real

									time
	Description： Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-15	DIO2 switch-off delay	3479	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-16	DIO3 as DO signal source	3482	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO3 is used as the DO signal. Value description: 0: Used as DI - DIO3 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-17	DIO4 as DO signal source	3485	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO4 is used as the DO signal. Value description: 0: Used as DI - DIO4 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-18	DIO5 as DO signal source	3488	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO5 is used as the DO signal. Value description: 0: Used as DI - DIO5 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-19	DIO6 as DO signal source	3491	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO6 is used as the DO signal.								

Value description:
0: Used as DI - DIO6 is used as DI by default.
Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-20	RO positive/negative logic	3494	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.

Description:
Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:
When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n8-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-21	RO1 signal source	3497	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:
0: Low level
1: High level
Others: B connector

Description:
Defines RO1 signal source.

	Value description: 0: Low level 1: High level Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-22	RO1 switch-on delay	3500	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-23	RO1 switch-off delay	3503	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-24	RO2 signal source	3506	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description:								

	Defines RO2 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-25	RO2 switch-on delay	3509	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-26	RO2 switch-off delay	3512	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-27	RO3 signal source	3515	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								

	Description： Defines RO3 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-28	RO4 signal source	3518	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value： 0： Low level 1： High level Others： B connector
Description： Set RO4 signal source. Value description: 0: Low level 1: High level Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-35	Selection when AI value lower than minimum input value	3521	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value：

Bit	Name	Value
Ones-	Selection when AI1 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Hundreds-	Selection when AI3 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%

Description:

Defines the selection when the AI value is lower than the minimum input value.

Value description:

Ones-: Selection when AI1 lower than the minimum input - The ones, tens, and hundreds are used to set AI1, AI2, and AI3 respectively.

0: Minimum input proportion

1: 0.0%

Tens-: Selection when AI2 lower than the minimum input

0: Minimum input proportion

1: 0.0%

Hundreds-: Selection when AI3 lower than the minimum input

0: Minimum input proportion

1: 0.0%

Note:

When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value.

When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-36	AI open circuit monitoring	3524	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled
Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled
Hundreds-	AI3 open circuit monitoring	0: Disabled 1: Enabled

Description:

Used to enable or disable open circuit monitoring, which is active only when the signal type is 4 mA to 20 mA.

Value description:

Ones-: AI1 open circuit monitoring enable - The ones, tens, and hundreds are used to set AI1, AI2, and AI3 respectively.

0: Disabled

1: Enabled

Tens-: AI2 open circuit monitoring

0: Disabled

	1: Enabled Hundreds-: AI3 open circuit monitoring enable 0: Disabled 1: Enabled Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-37	Zero-crossing threshold of AI setting	3527	0-1	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description： When the AI input proportion is lower than the threshold, the AI input proportion is 0%.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-40	AI1 selection	3530	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Inhibited 1： Enabled Others： B connector								
	Description： Used to enable or disable AI1. When this parameter is disabled, AI1 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-41	AI1 type	3533	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI1. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-42	Minimum input value of AI1 curve	3536	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI1 curve, which is used to calibrate AI1. Note: n28-42 and n28-44 limit the range of AI1 input (the unit is V or mA according to n28-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-42, the default output is n28-43, or the output can be set to 0.0%, which is the bit value of the ones position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-44, the default output is n28-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-43	Minimum input proportion of AI1 curve	3539	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1. Note: n28-42 and n28-44 limit the range of AI1 input (the unit is V or mA according to n28-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-42, the default output is n28-43, or the output can be set to 0.0%, which is the bit value of the ones position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-44, the default output is n28-45.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n28-44	Maximum input value of AI1 curve	3542	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1. Note: n28-42 and n28-44 limit the range of AI1 input (the unit is V or mA according to n28-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-42, the default output is n28-43, or the output can be set to 0.0%, which is the bit value of the ones position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-44, the default output is n28-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-45	Maximum input proportion of AI1 curve	3545	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: n28-42 and n28-44 limit the range of AI1 input (the unit is V or mA according to n28-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-42, the default output is n28-43, or the output can be set to 0.0%, which is the bit value of the ones position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-44, the default output is n28-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-46	AI1 filter time	3548	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI1 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-47	AI1 denoising threshold	3551	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description： Defines the denoising threshold of AI1. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-48	AI1 open circuit monitoring threshold	3554	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines AI1 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-49	AI1 open circuit monitoring delay	3557	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines AI1 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-50	AI2 selection	3560	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Inhibited 1：Enabled								

	Others： B connector
	Description： Used to enable or disable AI2. When this parameter is disabled, AI2 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-51	AI2 type	3563	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： -10 V to +10 V 1： 0 V to 10 V 2： -20 mA to +20 mA 3： 0 mA to 20 mA 4： 4 mA to 20 mA								
	Description： Defines the input source type of AI2. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-52	Minimum input value of AI2 curve	3566	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description： Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note: n28-52 and n28-54 limit the range of AI2 input (the unit is V or mA according to n28-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-52, the default output is n28-53, or the output can be set to 0.0%, which is the bit value of the tens position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-54, the default output is n28-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n28-53	Minimum input proportion of AI2 curve	3569	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2. Note: n28-52 and n28-54 limit the range of AI2 input (the unit is V or mA according to n28-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-52, the default output is n28-53, or the output can be set to 0.0%, which is the bit value of the tens position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-54, the default output is n28-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-54	Maximum input value of AI2 curve	3572	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: n28-52 and n28-54 limit the range of AI2 input (the unit is V or mA according to n28-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-52, the default output is n28-53, or the output can be set to 0.0%, which is the bit value of the tens position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-54, the default output is n28-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-55	Maximum input proportion of AI2 curve	3575	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2. Note: n28-52 and n28-54 limit the range of AI2 input (the unit is V or mA according to n28-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-52, the default output is n28-53, or the output can be set to 0.0%, which is the bit value of the tens position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-54, the default output is n28-55.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n28-56	AI2 filter time	3578	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI2 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-57	AI2 denoising threshold	3581	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI2. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-58	AI2 open circuit monitoring threshold	3584	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-59	AI2 open circuit monitoring delay	3587	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring delay. Note:								

	After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-60	AI3 selection	3590	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI3. When this parameter is disabled, AI3 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-61	AI3 type	3593	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI3. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n28-62	Minimum input value of AI3 curve	3596	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI3 curve, which is used to calibrate AI3. Note: n28-62 and n28-64 limit the range of AI3 input (the unit is V or mA according to n28-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-62, the default output is n28-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-64, the default output is n28-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-63	Minimum input proportion of AI3 curve	3599	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI3 curve, which is used to calibrate AI3. Note: n28-62 and n28-64 limit the range of AI3 input (the unit is V or mA according to n28-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-62, the default output is n28-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-64, the default output is n28-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-64	Maximum input value of AI3 curve	3602	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI3 curve, which is used to calibrate AI3. Note: n28-62 and n28-64 limit the range of AI3 input (the unit is V or mA according to n28-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-62, the default output is n28-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-64, the default output is n28-65.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n28-65	Maximum input proportion of AI3 curve	3605	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI3 curve, which is used to calibrate AI3. Note: n28-62 and n28-64 limit the range of AI3 input (the unit is V or mA according to n28-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n28-62, the default output is n28-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n28-35 (Selection when AI value lower than the minimum input value). When the input is higher than n28-64, the default output is n28-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-66	AI3 filter time	3608	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI3 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-67	AI3 denoising threshold	3611	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI3. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-68	AI3 disconnection monitoring threshold	3614	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI3 open circuit monitoring threshold. Note:								

	After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-69	AI3 disconnection monitoring delay	3617	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

Description：
Defines AI3 open circuit monitoring delay.

Note:
After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n28-48/n28-58/n28-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n28-49/n28-59/n28-69. To monitor this alarm, you can view in the oscilloscope through U4-39/U4-40/U4-41.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-70	AO1 signal source	3620	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value：
0： 0
Others： K connector

Description：
Defines the signal source of AO1 output.

Value description:
0: 0
Others: K connector - Selected based on the connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-71	AO1 type	3623	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value：

	0：0 V to 10 V 1：0 mA to 20 mA 2：4 mA to 20 mA
	Description： Defines the AO1 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-72	Minimum output proportion of AO1 curve	3626	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n28-72 and n28-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-73	Minimum output value of AO1 curve	3629	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n28-72 and n28-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-74	Maximum output proportion of AO1 curve	3632	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1.								

	Note: n28-72 and n28-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-71).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-75	Maximum output value of AO1 curve	3635	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n28-72 and n28-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-80	AO2 signal source	3638	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO2 output. Value description: 0: 0 Others: K connector - Selected based on the connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-81	AO2 type	3641	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA								

	2： 4 mA to 20 mA
	Description： Defines the AO2 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-82	Minimum output proportion of AO2 curve	3644	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n28-82 and n28-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-83	Minimum output value of AO2 curve	3647	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n28-82 and n28-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-84	Maximum output proportion of AO2 curve	3650	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note:								

	n28-82 and n28-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-81).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-85	Maximum output value of AO2 curve	3653	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n28-82 and n28-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-90	AO3 signal source	3656	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO3 output. Value description: 0: 0 Others: K connector - Selected based on the connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-91	AO3 type	3659	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								

	Description: Defines the AO3 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-92	Minimum output proportion of AO3 curve	3662	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO3 curve, which is used to calibrate the output of AO3. Note: n28-92 and n28-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-93	Minimum output value of AO3 curve	3665	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO3 curve, which is used to calibrate the output of AO3. Note: n28-92 and n28-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-94	Maximum output proportion of AO3 curve	3668	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO3 curve, which is used to calibrate the output of AO3. Note: n28-92 and n28-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly								

	(the unit is V or mA, depending on the setting of n28-91).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n28-95	Maximum output value of AO3 curve	3671	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO3 curve, which is used to calibrate the output of AO3. Note: n28-92 and n28-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n28-91).								

n29 HIO module 3 parameter setting (HIO-10)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-00	DI/DIO input filter time	3444	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Used to set the DI/DIO input filter time. Note: Pulse jumps lower than the filter time will be filtered out.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-09	DIO positive/negative logic	3462	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level	

Description:
Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:
When the bit is set to 1, the physical status value of the corresponding DI value will be inverted. n9-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-10	DIO1 as DO signal source	3465	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:
0: Use as DI
Others: B connector

Description:
Defines whether DIO1 is used as the DO signal.

Value description:
0: Used as DI - DIO1 is used as DI by default.
Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-11	DIO1 switch-on delay	3468	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:
Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

	Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-12	DIO1 switch-off delay	3471	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-13	DIO2 as DO signal source	3474	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Use as DI Others: B connector								
	Description: Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-14	DIO2 switch-on delay	3477	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.								

	Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-15	DIO2 switch-off delay	3480	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:
Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

Note:
The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-20	RO positive/negative logic	3495	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description:
Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:
When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n9-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n29-21	RO1 signal source	3498	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO1 signal source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-22	RO1 switch-on delay	3501	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-23	RO1 switch-off delay	3504	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-35	Selection when AI value lower than minimum input value	3522	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Selection when AI1 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Hundreds-	Selection when AI3 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%

Description:

Defines the selection when the AI value is lower than the minimum input value.

Note:

When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value.

When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-36	AI open circuit monitoring	3525	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled
Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled
Hundreds-	AI3 open circuit monitoring	0: Disabled 1: Enabled

Description:

Used to enable or disable open circuit monitoring, which is active only when the signal type is 4 mA to 20 mA.

Note:

After AI1/AI2 open circuit monitoring function is enabled, A170-6 (AI1 open circuit) is reported when the input value of AI/AI2 keeps lower than n29-48/n29-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n29-49/n29-59. To monitor this alarm, you can view it in the oscilloscope through U4-42/U4-43.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-	Zero-crossing threshold of AI	3528	0-1	0	Unsigned	0.1	Shutdown	General	Effective in real

37	setting				16 bit		change	user	time
	Description: Defines the zero-crossing threshold of AI setting. Note: When the AI input proportion is lower than the threshold, the AI input proportion is 0%.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-40	AI1 selection	3531	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Disable 1: Enable Others: B connector								
	Description: Defines whether to enable AI1. Note: When disabled, AI1 input proportion is set to 0 forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-41	AI1 type	3534	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI1. Note: The parameter selection of AI type must match the hardware DIP (jumper).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n29-42	Minimum input value of AI1 curve	3537	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI1 curve, which is used to calibrate AI1. Note: n29-42 and n29-44 limit the range of AI1 input (the unit is V or mA according to n29-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-42, the default output is n29-43, or the output can be set to 0.0%, which is the bit value of the ones position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-44, the default output is n29-45.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-43	Minimum input proportion of AI1 curve	3540	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1. Note: n29-42 and n29-44 limit the range of AI1 input (the unit is V or mA according to n29-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-42, the default output is n29-43, or the output can be set to 0.0%, which is the bit value of the ones position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-44, the default output is n29-45.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-44	Maximum input value of AI1 curve	3543	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1. Note: n29-42 and n29-44 limit the range of AI1 input (the unit is V or mA according to n29-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-42, the default output is n29-43, or the output can be set to 0.0%, which is the bit value of the ones position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-44, the default output is n29-45.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n29-45	Maximum input proportion of AI1 curve	3546	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: n29-42 and n29-44 limit the range of AI1 input (the unit is V or mA according to n29-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-42, the default output is n29-43, or the output can be set to 0.0%, which is the bit value of the ones position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-44, the default output is n29-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-46	AI1 filter time	3549	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI1 filter time. Note: Defines the AI filter time, which can remove interference but generate a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-47	AI1 denoising threshold	3552	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the AI1 denoising threshold. Note: When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-48	AI1 open circuit monitoring threshold	3555	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description： Defines AI1 open circuit monitoring threshold. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-6 (AI1 open circuit) is reported when the input value of AI/AI2 keeps lower than n29-48/n29-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n29-49/n29-59. To monitor this alarm, you can view it in the oscilloscope through U4-42/U4-43.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-49	AI1 open circuit monitoring delay	3558	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines AI1 open circuit monitoring delay. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-6 (AI1 open circuit) is reported when the input value of AI/AI2 keeps lower than n29-48/n29-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n29-49/n29-59. To monitor this alarm, you can view it in the oscilloscope through U4-42/U4-43.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-50	AI2 selection	3561	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Disable 1： Enable Others： B connector								
	Description： Defines whether to enable AI2. Note: When disabled, AI2 input proportion is set to 0 forcibly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-51	AI2 type	3564	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real

									time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI2. Note: The parameter selection of AI type must match the hardware DIP (jumper).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-52	Minimum input value of AI2 curve	3567	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note: n29-52 and n29-54 limit the range of AI2 input (the unit is V or mA according to n29-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-52, the default output is n29-53, or the output can be set to 0.0%, which is the bit value of the tens position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-54, the default output is n29-55.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-53	Minimum input proportion of AI2 curve	3570	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2. Note: n29-52 and n29-54 limit the range of AI2 input (the unit is V or mA according to n29-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-52, the default output is n29-53, or the output can be set to 0.0%, which is the bit value of the tens position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-54, the default output is n29-55.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n29-54	Maximum input value of AI2 curve	3573	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: n29-52 and n29-54 limit the range of AI2 input (the unit is V or mA according to n29-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-52, the default output is n29-53, or the output can be set to 0.0%, which is the bit value of the tens position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-54, the default output is n29-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-55	Maximum input proportion of AI2 curve	3576	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2. Note: n29-52 and n29-54 limit the range of AI2 input (the unit is V or mA according to n29-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n29-52, the default output is n29-53, or the output can be set to 0.0%, which is the bit value of the tens position of n29-35 (Selection when AI value lower than the minimum input value). When the input is higher than n29-54, the default output is n29-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-56	AI2 filter time	3579	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI2 filter time. Note: Defines the AI filter time, which can remove interference but generate a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n29-57	AI2 denoising threshold	3582	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: This parameter defines the AI2 denoising threshold. Note: When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-58	AI2 open circuit monitoring threshold	3585	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring threshold. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-6 (AI1 open circuit) is reported when the input value of AI/AI2 keeps lower than n29-48/n29-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n29-49/n29-59. To monitor this alarm, you can view it in the oscilloscope through U4-42/U4-43.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-59	AI2 open circuit monitoring delay	3588	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring delay. Note: After AI1/AI2 open circuit monitoring function is enabled, A170-6 (AI1 open circuit) is reported when the input value of AI/AI2 keeps lower than n29-48/n29-58 (AI open circuit monitoring threshold) for a period longer than the time defined by n29-49/n29-59. To monitor this alarm, you can view it in the oscilloscope through U4-42/U4-43.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-70	AO1 signal source	3621	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

	Value： 0：0 Others：K connector
	Description： Defines the signal source of AO1 output.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-71	AO1 type	3624	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：0 V to 10 V 1：0 mA to 20 mA 2：4 mA to 20 mA								
	Description： Defines the AO1 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-72	Minimum output proportion of AO1 curve	3627	-600 to +6 00	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n29-72 and n29-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (29-73) and the maximum output value of the nAO1 curve (29-75), the output value is converted linearly (the unit is V or mA, depending on the value of n29-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-73	Minimum output value of AO1 curve	3630	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description: Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n29-72 and n29-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (29-73) and the maximum output value of the nAO1 curve (29-75), the output value is converted linearly (the unit is V or mA, depending on the value of n29-71).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-74	Maximum output proportion of AO1 curve	3633	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n29-72 and n29-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (29-73) and the maximum output value of the nAO1 curve (29-75), the output value is converted linearly (the unit is V or mA, depending on the value of n29-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-75	Maximum output value of AO1 curve	3636	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n29-72 and n29-74 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO1 curve (29-73) and the maximum output value of the nAO1 curve (29-75), the output value is converted linearly (the unit is V or mA, depending on the value of n29-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-80	AO2 signal source	3639	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

	0：0 Others：K connector
	Description： Defines the signal source of AO2 output.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-81	AO2 type	3642	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：0 V to 10 V 1：0 mA to 20 mA 2：4 mA to 20 mA								
	Description： Defines the AO2 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-82	Minimum output proportion of AO2 curve	3645	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n29-82 and n29-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (29-83) and the maximum output value of the nAO2 curve (29-85), the output value is converted linearly (the unit is V or mA, depending on the value of n29-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-83	Minimum output value of AO2 curve	3648	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description：								

	Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n29-82 and n29-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (29-83) and the maximum output value of the nAO2 curve (29-85), the output value is converted linearly (the unit is V or mA, depending on the value of n29-81).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-84	Maximum output proportion of AO2 curve	3651	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n29-82 and n29-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (29-83) and the maximum output value of the nAO2 curve (29-85), the output value is converted linearly (the unit is V or mA, depending on the value of n29-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n29-85	Maximum output value of AO2 curve	3654	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n29-82 and n29-84 limit the AO1 output percentage range. Within the range of the minimum output value of the nAO2 curve (29-83) and the maximum output value of the nAO2 curve (29-85), the output value is converted linearly (the unit is V or mA, depending on the value of n29-81).								

n30 HIO module 3 parameter setting (HIO-20)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-00	DI/DIO input filter time	3444	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real

									time

Description:

Used to set the DI/DIO input filter time.

Note:

Pulse jumps lower than the filter time will be filtered out.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-09	DIO positive/negative logic	3462	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level 1: Logic 1 corresponds to low level

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the corresponding DI terminal signal source will be inverted. n9-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-10	DIO1 as DO signal source	3465	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

	0： Use as DI Others： B connector
	Description： Defines whether DIO1 is used as the DO signal. Value description: 0: Used as DI - DIO1 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-11	DIO1 switch-on delay	3468	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-12	DIO1 switch-off delay	3471	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-13	DIO2 as DO signal source	3474	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value：								

	0： Use as DI Others： B connector
	Description： Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-14	DIO2 switch-on delay	3477	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-15	DIO2 switch-off delay	3480	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description： Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-16	DIO3 as DO signal source	3483	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value：								

	0： Use as DI Others： B connector
	Description： Defines whether DIO3 is used as the DO signal. Value description: 0: Used as DI - DIO3 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-17	DIO4 as DO signal source	3486	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Use as DI Others： B connector								
	Description： Defines whether DIO4 is used as the DO signal. Value description: 0: Used as DI - DIO4 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-18	DIO5 as DO signal source	3489	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Use as DI Others： B connector								
	Description： Defines whether DIO5 is used as the DO signal. Value description: 0: Used as DI - DIO5 is used as DI by default.								

Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-20	RO positive/negative logic	3495	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level 1: Logic 1 outputs low level

Description:

Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:

When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n9-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-21	RO1 signal source	3498	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Low level

1: High level

Others: B connector

Description:

Defines RO1 signal source.

Others: B connector - Select the bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-22	RO1 switch-on delay	3501	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-23	RO1 switch-off delay	3504	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-24	RO2 signal source	3507	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO2 signal source. Others: B connector - Select the bit connector.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n30-25	RO2 switch-on delay	3510	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n30-26	RO2 switch-off delay	3513	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

n31 HIO module 3 parameter setting (HIO-30)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-00	DI/DIO input filter time	3444	0.000-1.000	0.001	Unsigned 16 bit	0.001	Shutdown change	General user	Effective in real time
	Description: Defines the DI/DIO input filter time. Pulse jumps lower than the filter time will be filtered.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-01	DI positive/negative logic	3447	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

Bit	Name	Value
bit0	DI1 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit1	DI2 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit2	DI3 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit3	DI4 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit4	DI5 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit5	DI6 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DI1 to DI6.

Note:

When the bit is set to 1, the corresponding DI terminal signal source will be inverted. n8-12 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-02	DI1 switch-on delay	3450	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-on delay of DI1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.

Note:

The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-03	DI1 switch-off delay	3453	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-off delay of the DI1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

	Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-04	DI2 switch-on delay	3456	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

n31-04

Description:
Defines the switch-on delay of DI2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.

Note:
The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-05	DI2 switch-off delay	3459	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

n31-05

Description:
Defines the switch-off delay of the DI2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses.

Note:
The switch-off delay filters out the low level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-09	DIO positive/negative logic	3462	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

n31-09

Value:

Bit	Name	Value
bit0	DIO1 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit1	DIO2 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.

bit2	DIO3 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit3	DIO4 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit4	DIO5 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.
bit5	DIO6 positive/negative logic	0: Logic 1 corresponds to high level. 1: Logic 1 corresponds to low level.

Description:

Defines the positive/negative logic of DI terminals. bit0 to bit5 correspond to DIO1 to DIO6.

Note:

When the bit is set to 1, the physical state value of the corresponding DIO terminal will be inverted. n8-12/n8-14 is used to display the processed input/output status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-10	DIO1 as DO signal source	3465	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Used as DI

Others: B connector

Description:

Defines whether DIO1 is used as the DO signal.

Value description:

0: Used as DI - DIO1 is used as DI by default.

Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-11	DIO1 switch-on delay	3468	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time

Description:

Defines the switch-on delay of DIO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.

	Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-12	DIO1 switch-off delay	3471	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-13	DIO2 as DO signal source	3474	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO2 is used as the DO signal. Value description: 0: Used as DI - DIO2 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-14	DIO2 switch-on delay	3477	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of DIO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses.								

	Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-15	DIO2 switch-off delay	3480	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the DIO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-16	DIO3 as DO signal source	3483	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI Others: B connector								
	Description: Defines whether DIO3 is used as the DO signal. Value description: 0: Used as DI - DIO3 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-17	DIO4 as DO signal source	3486	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Used as DI								

	Others： B connector
	Description： Defines whether DIO4 is used as the DO signal. Value description: 0: Used as DI - DIO4 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-18	DIO5 as DO signal source	3489	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO5 is used as the DO signal. Value description: 0: Used as DI - DIO5 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF delay, and positive/negative logic processes, is used as the actual DO signal.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-19	DIO6 as DO signal source	3492	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Used as DI Others： B connector								
	Description： Defines whether DIO6 is used as the DO signal. Value description: 0: Used as DI - DIO6 is used as DI by default. Others: B connector - Configure the DIO as DO. The signal of connector B, after being processed with the ON delay, OFF								

delay, and positive/negative logic processes, is used as the actual DO signal.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-20	RO positive/negative logic	3495	Refer to "Value"	0x0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
bit0	RO1 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.
bit1	RO2 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.
bit2	RO3 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.
bit3	RO4 positive/negative logic	0: Logic 1 outputs high level. 1: Logic 1 outputs low level.

Description:

Defines the positive/negative logic of the RO terminal. bit0 to bit3 correspond to RO1 to RO4.

Note:

When the bit is set to 1, the corresponding DO terminal signal source will be inverted. n8-14 is used to display the processed status value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-21	RO1 signal source	3498	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Low level

1: High level

Others: B connector

Description:

Defines RO1 signal source.

Value description:

0: Low level

1: High level

	Others: B connector - Select bit connector.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-22	RO1 switch-on delay	3501	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO1. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-23	RO1 switch-off delay	3504	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO1 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-24	RO2 signal source	3507	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO2 signal source. Value description: 0: Low level								

	1: High level Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-25	RO2 switch-on delay	3510	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-on delay of RO2. The pulse rising edge of the signal source changes to high level after the switch-on delay elapses. Note: The switch-on delay filters out the high level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-26	RO2 switch-off delay	3513	0.00-360.00	0.00	Unsigned 16 bit	0.01	Shutdown change	General user	Effective in real time
	Description: Defines the switch-off delay of the RO2 terminal. The pulse falling edge of the signal source changes to low level after the switch-off delay elapses. Note: The switch-off delay filters out the low level pulses that lower than the set delay cycle.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-27	RO3 signal source	3516	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Low level 1: High level Others: B connector								
	Description: Defines RO3 signal source. Value description:								

0: Low level
1: High level
Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-28	RO4 signal source	3519	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

0: Low level
1: High level
Others: B connector

Description:
Set RO4 signal source.

Value description:
0: Low level
1: High level
Others: B connector - Select bit connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-35	Selection when AI value lower than minimum input value	3522	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Selection when AI1 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Tens-	Selection when AI2 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%
Hundreds-	Selection when AI3 lower than minimum input setpoint	0: Minimum input proportion 1: 0.0%

Description:
Defines the selection when the AI value is lower than the minimum input value.

Value description:

Ones-: Selection when AI1 lower than the minimum input - The ones, tens, and hundreds are used to set AI1, AI2, and AI3 respectively.
0: Minimum input proportion
1: 0.0%
Tens-: Selection when AI2 lower than the minimum input
0: Minimum input proportion
1: 0.0%
Hundreds-: Selection when AI3 lower than the minimum input
0: Minimum input proportion
1: 0.0%

Note:
When it is set to 0, the output is the minimum input proportion when the AI input is lower than the minimum input value.
When it is set to 1, the output is 0.0% when the AI input is lower than the minimum input value.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-36	AI open circuit monitoring	3525	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	AI1 open circuit monitoring	0: Disabled 1: Enabled
Tens-	AI2 open circuit monitoring	0: Disabled 1: Enabled
Hundreds-	AI3 open circuit monitoring	0: Disabled 1: Enabled

Description:
Used to enable or disable open circuit monitoring, which is active only when the signal type is 4 mA to 20 mA.

Value description:
Ones-: AI1 open circuit monitoring enable - The ones, tens, and hundreds are used to set AI1, AI2, and AI3 respectively.
0: Disabled
1: Enabled
Tens-: AI2 open circuit monitoring
0: Disabled
1: Enabled
Hundreds-: AI3 open circuit monitoring enable
0: Disabled
1: Enabled

	Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-37	Zero-crossing threshold of AI setting	3528	0-1	0	Unsigned 16 bit	0.1	Shutdown change	General user	Effective in real time
	Description: When the AI input proportion is lower than the threshold, the AI input proportion is 0%.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-40	AI1 selection	3531	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI1. When this parameter is disabled, AI1 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-41	AI1 type	3534	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 3: 0 mA to 20 mA								

	2：-20 mA to +20 mA　　4：4 mA to 20 mA
	Description： Defines the input source type of AI1. Note: The parameter selection of AI type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-42	Minimum input value of AI1 curve	3537	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description： Defines the minimum input value of AI1 curve, which is used to calibrate AI1. Note: n31-42 and n31-44 limit the range of AI1 input (the unit is V or mA according to n31-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-42, the default output is n31-43, or the output can be set to 0.0%, which is the bit value of the ones position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-44, the default output is n31-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-43	Minimum input proportion of AI1 curve	3540	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the minimum input proportion of AI1 curve, which is used to calibrate AI1. Note: n31-42 and n31-44 limit the range of AI1 input (the unit is V or mA according to n31-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-42, the default output is n31-43, or the output can be set to 0.0%, which is the bit value of the ones position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-44, the default output is n31-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-44	Maximum input value of AI1 curve	3543	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time

	Description: Defines the maximum input value of AI1 curve, which is used to calibrate AI1. Note: n31-42 and n31-44 limit the range of AI1 input (the unit is V or mA according to n31-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-42, the default output is n31-43, or the output can be set to 0.0%, which is the bit value of the ones position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-44, the default output is n31-45.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-45	Maximum input proportion of AI1 curve	3546	-600 to +6 00	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI1 curve, which is used to calibrate AI1. Note: n31-42 and n31-44 limit the range of AI1 input (the unit is V or mA according to n31-41). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-42, the default output is n31-43, or the output can be set to 0.0%, which is the bit value of the ones position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-44, the default output is n31-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-46	AI1 filter time	3549	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI1 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-47	AI1 denoising threshold	3552	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI1. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n31-48	AI1 open circuit monitoring threshold	3555	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-49	AI1 open circuit monitoring delay	3558	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI1 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-50	AI2 selection	3561	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI2. When this parameter is disabled, AI2 is set to 0 forcibly.								

	Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-51	AI2 type	3564	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI2. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-52	Minimum input value of AI2 curve	3567	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI2 curve, which is used to calibrate AI2. Note: n31-52 and n31-54 limit the range of AI2 input (the unit is V or mA according to n31-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-52, the default output is n31-53, or the output can be set to 0.0%, which is the bit value of the tens position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-54, the default output is n31-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-53	Minimum input proportion of AI2 curve	3570	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the minimum input proportion of AI2 curve, which is used to calibrate AI2. Note: n31-52 and n31-54 limit the range of AI2 input (the unit is V or mA according to n31-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-52, the default output is n31-53, or the output can be set to 0.0%, which is the bit value of the tens position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-54, the default output is n31-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-54	Maximum input value of AI2 curve	3573	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI2 curve, which is used to calibrate AI2. Note: n31-52 and n31-54 limit the range of AI2 input (the unit is V or mA according to n31-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-52, the default output is n31-53, or the output can be set to 0.0%, which is the bit value of the tens position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-54, the default output is n31-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-55	Maximum input proportion of AI2 curve	3576	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI2 curve, which is used to calibrate AI2. Note: n31-52 and n31-54 limit the range of AI2 input (the unit is V or mA according to n31-51). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-52, the default output is n31-53, or the output can be set to 0.0%, which is the bit value of the tens position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-54, the default output is n31-55.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-56	AI2 filter time	3579	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description: Defines the AI2 filter time, which can remove interference but generates a delay effect.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-57	AI2 denoising threshold	3582	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI2. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-58	AI2 open circuit monitoring threshold	3585	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-59	AI2 open circuit monitoring delay	3588	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI2 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n31-60	AI3 selection	3591	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Used to enable or disable AI3. When this parameter is disabled, AI3 is set to 0 forcibly. Value description: 0: Disabled 1: Enable Others: B connector - Enabled based on the bit connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-61	AI3 type	3594	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: -10 V to +10 V 1: 0 V to 10 V 2: -20 mA to +20 mA 3: 0 mA to 20 mA 4: 4 mA to 20 mA								
	Description: Defines the input source type of AI3. Note: The parameter selection of AI type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-62	Minimum input value of AI3 curve	3597	-20.000 to +20.000	-10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of AI3 curve, which is used to calibrate AI3.								

	Note: n31-62 and n31-64 limit the range of AI3 input (the unit is V or mA according to n31-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-62, the default output is n31-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-64, the default output is n31-65.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-63	Minimum input proportion of AI3 curve	3600	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of AI3 curve, which is used to calibrate AI3. Note: n31-62 and n31-64 limit the range of AI3 input (the unit is V or mA according to n31-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-62, the default output is n31-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-64, the default output is n31-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-64	Maximum input value of AI3 curve	3603	-20.000 to +20.000	10.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of AI3 curve, which is used to calibrate AI3. Note: n31-62 and n31-64 limit the range of AI3 input (the unit is V or mA according to n31-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-62, the default output is n31-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-64, the default output is n31-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-65	Maximum input proportion of AI3 curve	3606	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of AI3 curve, which is used to calibrate AI3.								

	Note: n31-62 and n31-64 limit the range of AI3 input (the unit is V or mA according to n31-61). Within the value range, the output percentage is linearly converted. When the input value is lower than the value of n31-62, the default output is n31-63, or the output can be set to 0.0%, which is the bit value of the hundreds position of n31-35 (Selection when AI value lower than the minimum input value). When the input is higher than n31-64, the default output is n31-65.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-66	AI3 filter time	3609	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the AI3 filter time, which can remove interference but generates a delay effect.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-67	AI3 denoising threshold	3612	0-20	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the denoising threshold of AI3. When the AI input fluctuation is lower than the threshold, the AI input percentage remains unchanged.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-68	AI3 disconnection monitoring threshold	3615	0.000-4.000	2.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines AI3 open circuit monitoring threshold. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n31-69	AI3 disconnection monitoring delay	3618	0.00-10.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines AI3 open circuit monitoring delay. Note: After AI1/AI2/AI3 open circuit monitoring function is enabled, A170-5 (AI1 open circuit) is reported when the input value of AI1/AI2/AI3 keeps lower than n31-48/n31-58/n31-68 (AI open circuit monitoring threshold) for a period longer than the time defined by n31-49/n31-59/n31-69. To monitor this alarm, you can view in the oscilloscope through U4-42/U4-43/U4-44.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-70	AO1 signal source	3621	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO1 output. Value description: 0: 0 Others: K connector - Selected based on the connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-71	AO1 type	3624	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO1 output signal type.								

	Note: The parameter selection of AO type must match the hardware DIP (jumper).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-72	Minimum output proportion of AO1 curve	3627	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n31-72 and n31-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-73	Minimum output value of AO1 curve	3630	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n31-72 and n31-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-74	Maximum output proportion of AO1 curve	3633	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO1 curve, which is used to calibrate the output of AO1. Note: n31-72 and n31-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n31-75	Maximum output value of AO1 curve	3636	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of AO1 curve, which is used to calibrate the output of AO1. Note: n31-72 and n31-74 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-71).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-80	AO2 signal source	3639	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO2 output. Value description: 0: 0 Others: K connector - Selected based on the connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-81	AO2 type	3642	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO2 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-82	Minimum output proportion of AO2 curve	3645	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n31-82 and n31-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-83	Minimum output value of AO2 curve	3648	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n31-82 and n31-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-84	Maximum output proportion of AO2 curve	3651	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO2 curve, which is used to calibrate the output of AO2. Note: n31-82 and n31-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-85	Maximum output value of AO2 curve	3654	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real

									time
	Description: Defines the maximum output value of AO2 curve, which is used to calibrate the output of AO2. Note: n31-82 and n31-84 limit the range of the AO1 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-90	AO3 signal source	3657	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the signal source of AO3 output. Value description: 0: 0 Others: K connector - Selected based on the connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-91	AO3 type	3660	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: 0 V to 10 V 1: 0 mA to 20 mA 2: 4 mA to 20 mA								
	Description: Defines the AO3 output signal type. Note: The parameter selection of AO type must match the hardware DIP (jumper).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n31-92	Minimum output proportion of AO3 curve	3663	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum output proportion of AO3 curve, which is used to calibrate the output of AO3. Note: n31-92 and n31-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-93	Minimum output value of AO3 curve	3666	0.000-20.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of AO3 curve, which is used to calibrate the output of AO3. Note: n31-92 and n31-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-94	Maximum output proportion of AO3 curve	3669	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum output proportion of AO3 curve, which is used to calibrate the output of AO3. Note: n31-92 and n31-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-91).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n31-95	Maximum output value of AO3 curve	3672	0.000-20.000	10.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time

	Description： Defines the maximum output value of AO3 curve, which is used to calibrate the output of AO3. Note: n31-92 and n31-94 limit the range of the AO3 output percentage. Within the range, the output value is converted linearly (the unit is V or mA, depending on the setting of n31-91).

n32 HSTM-10 module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-00	Expansion slot selection	6588	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Disabled 1：Expansion slot 1_1 2：Expansion slot 1_2 3：Expansion slot 1_3 4：Expansion slot 2_1 5：Expansion slot 2_2 6：Expansion slot 2_3 7：Expansion slot 3_1								
	Description： Defines the slot position where the HSTM-10 module is located. Note: You can view the module type and module software version of the corresponding slot through A2-24 to A2-37.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-01	Module online state	36222	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：Offline 1：Online								
	Description： Displays the online status of current HSTM-10 module. Note: n19-00 needs to be set correctly before the module is displayed as online.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-	Module type	6589	Refer to	0	Unsigned	1	Shutdown	General	Effective

02	selection		"Value"		16 bit		change	user	in real time
	Value: 0: Invalid type 1: HSTM-10 module								
	Description: Defines the module type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-03	Pulse/Frequency measurement mode	6590	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Single pulse 1: Single pulse + direction (reserved) 2: Forward/Reverse pulse (reserved) 3: AB signal orthogonal (reserved)								
	Description: Defines the pulse/frequency measurement mode.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-04	Pulse measurement filter time	6591	1-10	2	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time of pulse measurement.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-05	Pulse/Frequency conversion offset	6592	-32.768 kHz to +32.767 kHz	0.000	Signed 16 bits	0.001	Real time changes	General user	Effective in real time
	Description: Defines the pulse/frequency conversion offset.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-06	Minimum input frequency of frequency/torque curve	6593	0.00-100.00	30.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

	Description: Defines the minimum input frequency of the frequency/torque curve.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-07	Minimum input proportion of frequency/torque curve	6594	-600 to +600	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the minimum input proportion of the frequency/torque curve.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-08	Maximum input frequency of frequency/torque curve	6595	0.00-100.00	90.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum input frequency of the frequency/torque curve.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-09	Maximum input proportion of frequency/torque curve	6596	-600 to +600	100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the maximum input proportion of the frequency/torque curve.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-10	Frequency/torque curve output filter time	6597	0.000-10.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the frequency/torque curve output filter time.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-11	Frequency/Torque curve output proportional coefficient 1 (MULTIPLY)	6598	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the frequency/torque curve output proportional coefficient 1 (MULTIPLY).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-12	Frequency/Torque curve output proportional coefficient 2 (DIVIDE)	6599	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the frequency/torque curve output proportional coefficient 2 (DIVIDE).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-13	HSTM module open circuit detection	6457	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Used to set HSTM module disconnection detection. Note: If HSTM module open circuit is detected after HSTM module open circuit detection is enabled and the open circuit state lasts after the time set by n32-14 elapses, F196-1-HSTM-10 module open circuit fault (hardware detection) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-14	HSTM module open circuit detection time	6458	0.0-10.0	0.5	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the HSTM module open circuit detection time. Note: If HSTM module open circuit is detected after HSTM module open circuit detection is enabled and the open circuit state lasts after the time set by n32-14 elapses, F196-1-HSTM-10 module open circuit fault (hardware detection) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n32-15	Solution to HSTM module open circuit	6459	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: OFF2 stop 1: OFF3 stop 2: OFF1 stop 3: Display alarm only 4: Not handled								

	Description： Defines the mode for handing HSTM module open circuit fault.

n33 Double word input of fieldbus adapter A process data

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-00	PZD double word input of adapter A	7052	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value：

Bit	Name	Value
bit0-	PZD1+2 input	0: Inhibited 1: Enabled
bit1-	PZD2+3 input	0: Inhibited 1: Enabled
bit2-	PZD3+4 input	0: Inhibited 1: Enabled
bit3-	PZD4+5 input	0: Inhibited 1: Enabled
bit4-	PZD5+6 input	0: Inhibited 1: Enabled
bit5-	PZD6+7 input	0: Inhibited 1: Enabled
bit6-	PZD7+8 input	0: Inhibited 1: Enabled
bit7-	PZD8+9 input	0: Inhibited 1: Enabled
bit8-	PZD9+10 input	0: Inhibited 1: Enabled
bit9-	PZD10+11 input	0: Inhibited 1: Enabled
bit10-	PZD11+12 input	0: Inhibited 1: Enabled
bit11-	PZD12+13 input	0: Inhibited 1: Enabled
bit12-	PZD13+14 input	0: Inhibited 1: Enabled

bit13-	PZD14+15 input	0: Inhibited 1: Enabled	
bit14-	PZD15+16 input	0: Inhibited 1: Enabled	
bit15-	Reserved	0: Inhibited 1: Enabled	

Description:

Used to enable PZD double word input of adapter A.

Note:

When the process data of the external bus is double word data (32 bits), two single word PZD process data (16 bits) are used to receive double word PZD data.

This function is only available in some communication cards.

For example, the double word sent by the host controller is divided into two single words, PZD1 and PZD2. The separated PZD1 and PZD2 are converted into double words after high/low byte conversion. The combined double word is then being converted based on the base value. The double word data is finally saved in the connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-01	High/Low word selection of PZD double word input of adapter A	7053	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD1+2 input	0: PZD1 low word, PZD2 high word 1: PZD1 high word, PZD2 low word
bit1-	PZD2+3 input	0: PZD2 low word, PZD3 high word 1: PZD2 high word, PZD3 low word
bit2-	PZD3+4 input	0: PZD3 low word, PZD4 high word 1: PZD3 high word, PZD4 low word
bit3-	PZD4+5 input	0: PZD4 low word, PZD5 high word 1: PZD4 high word, PZD5 low word
bit4-	PZD5+6 input	0: PZD5 low word, PZD6 high word 1: PZD5 high word, PZD6 low word
bit5-	PZD6+7 input	0: PZD6 low word, PZD7 high word 1: PZD6 high word, PZD7 low word
bit6-	PZD7+8 input	0: PZD7 low word, PZD8 high word 1: PZD7 high word, PZD8 low word

bit7-	PZD8+9 input	0: PZD8 low word, PZD9 high word 1: PZD8 high word, PZD9 low word	
bit8-	PZD9+10 input	0: PZD9 low word, PZD10 high word 1: PZD9 high word, PZD10 low word	
bit9-	PZD10+11 input	0: PZD10 low word, PZD11 high word 1: PZD10 high word, PZD11 low word	
bit10-	PZD11+12 input	0: PZD11 low word, PZD12 high word 1: PZD11 high word, PZD12 low word	
bit11-	PZD12+13 input	0: PZD12 low word, PZD13 high word 1: PZD12 high word, PZD13 low word	
bit12-	PZD13+14 input	0: PZD13 low word, PZD14 high word 1: PZD13 high word, PZD14 low word	
bit13-	PZD14+15 input	0: PZD14 low word, PZD15 high word 1: PZD14 high word, PZD15 low word	
bit14-	PZD15+16 input	0: PZD15 low word, PZD16 high word 1: PZD15 high word, PZD16 low word	
bit15-	Reserved	0: Inhibited 1: Enabled	

Description:

Defines the sequence of high/low bytes of the PZD input of adapter A.

Note:

The 32-bit data received is divided into two 16-bit data, and 16 bits are combined into a single 32-bit data after high/low byte conversion. You can align the data format with the host controller. Set based on the actual application.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-02	Communication base value of PZD1+2 data input	7054	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:

Defines the communication base value of double word PZD1+2 data input of adapter A.

Note:

Input data of bus adapter A.PZD1+2 (after base value conversion) (U29-70) = Original data input display of adapter A.PZD1+2 (n33-17) x Input communication base value of PZD1+2 (n33-02)/ (4096 x 65536). When the communication base value for PZD1+2 data input is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n33-03	Communication base value of PZD2+3 data input	7056	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD2+3 data input of adapter A. Note: Input data of bus adapter A.PZD2+3 (after base value conversion) (U29-71) = Original data input display of adapter A.PZD2+3 (n33-18) x Input communication base value of PZD2+3 (n33-03)/ (4096 x 65536). When the communication base value for PZD2+3 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-04	Communication base value of PZD3+4 data input	7058	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD3+4 data input of adapter A. Note: Input data of bus adapter A.PZD3+4 (after base value conversion) (U29-72) = Original data input display of adapter A.PZD3+4 (n33-19) x Input communication base value of PZD3+4 (n33-04)/ (4096 x 65536). When the communication base value for PZD3+4 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-05	Communication base value of PZD4+5 data input	7060	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD4+5 data input of adapter A. Note: Input data of bus adapter A.PZD4+5 (after base value conversion) (U29-73) = Original data input display of adapter A.PZD4+5 (n33-20) x Input communication base value of PZD4+5 (n33-05)/ (4096 x 65536). When the communication base value for PZD4+5 data input is 3, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-	Communication base value of	7062	0-	0	Unsigned	1	Real time	General	Effective in real

06	PZD5+6 data input		2147483647		32		changes	user	time
	Description: Defines the communication base value of double word PZD5+6 data input of adapter A. Note: Input data of bus adapter A.PZD5+6 (after base value conversion) (U29-74) = Original data input display of adapter A.PZD5+6 (n33-21) x Input communication base value of PZD5+6 (n33-06)/ (4096 x 65536). When the communication base value for PZD5+6 data input is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-07	Communication base value of PZD6+7 data input	7064	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD6+7 data input of adapter A. Note: Input data of bus adapter A.PZD6+7 (after base value conversion) (U29-75) = Original data input display of adapter A.PZD6+7 (n33-22) x Input communication base value of PZD6+7 (n33-07)/ (4096 x 65536). When the communication base value for PZD6+7 data input is 5, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-08	Communication base value of PZD7+8 data input	7066	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD7+8 data input of adapter A. Note: Input data of bus adapter A.PZD7+8 (after base value conversion) (U29-76) = Original data input display of adapter A.PZD7+8 (n33-23) x Input communication base value of PZD7+8 (n33-08)/ (4096 x 65536). When the communication base value for PZD7+8 data input is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-09	Communication base value of PZD8+9 data input	7068	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

	Description: Defines the communication base value of double word PZD8+9 data input of adapter A. Note: Input data of bus adapter A.PZD8+9 (after base value conversion) (U29-77) = Original data input display of adapter A.PZD8+9 (n33-24) x Input communication base value of PZD8+9 (n33-09)/ (4096 x 65536). When the communication base value for PZD8+9 data input is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-10	Communication base value of PZD9+10 data input	7070	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD9+10 data input of adapter A. Note: Input data of bus adapter A.PZD9+10 (after base value conversion) (U29-78) = Original data input display of adapter A.PZD9+10 (n33-25) x Input communication base value of PZD9+10 (n33-10)/ (4096 x 65536). When the communication base value for PZD9+10 data input is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-11	Communication base value of PZD10+11 data input	7072	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD10+11 data input of adapter A. Note: Input data of bus adapter A.PZD10+11 (after base value conversion) (U29-79) = Original data input display of adapter A.PZD10+11 (n33-26) x Input communication base value of PZD10+11 (n33-11)/ (4096 x 65536). When the communication base value for PZD10+11 data input is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-12	Communication base value of PZD11+12 data	7074	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

	input								
	Description: Defines the communication base value of double word PZD11+12 data input of adapter A. Note: Input data of bus adapter A.PZD11+12 (after base value conversion) (U29-80) = Original data input display of adapter A.PZD11+12 (n33-27) x Input communication base value of PZD11+12 (n33-12)/ (4096 x 65536). When the communication base value for PZD11+12 data input is 10, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-13	Communication base value of PZD12+13 data input	7076	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD12+13 data input of adapter A. Note: Input data of bus adapter A.PZD12+13 (after base value conversion) (U29-81) = Original data input display of adapter A.PZD12+13 (n33-28) x Input communication base value of PZD12+13 (n33-13)/ (4096 x 65536). When the communication base value for PZD12+13 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-14	Communication base value of PZD13+14 data input	7078	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD13+14 data input for adapter A. Note: Input data of bus adapter A.PZD13+14 (after base value conversion) (U29-82) = Original data input display of adapter A.PZD13+14 (n33-29) x Input communication base value of PZD13+14 (n33-14)/ (4096 x 65536). When the communication base value for PZD13+14 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-	Communication base value of	7080	0-	0	Unsigned	1	Real time	General	Effective in real

15	PZD14+15 data input		2147483647		32		changes	user	time
	Description: Defines the communication base value of double word PZD14+15 data input of adapter A. Note: Input data of bus adapter A.PZD14+15 (after base value conversion) (U29-83) = Original data input display of adapter A.PZD14+15 (n33-30) x Input communication base value of PZD14+15 (n33-15)/ (4096 x 65536). When the communication base value for PZD14+15 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-16	Communication base value of PZD15+16 data input	7082	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of double word PZD15+16 data input of adapter A. Note: Input data of bus adapter A.PZD15+16 (after base value conversion) (U29-84) = Original data input display of adapter A.PZD15+16 (n33-31) x Input communication base value of PZD15+16 (n33-16)/ (4096 x 65536). When the communication base value for PZD15+16 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-17	Original data input of adapter A.PZD1+2	36447	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD1+2 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-18	Original data input of adapter A.PZD2+3	36449	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD2+3 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-19	Original data input of adapter A.PZD3+4	36451	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD3+4 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-20	Original data input of adapter A.PZD4+5	36453	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD4+5 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-21	Original data input of adapter A.PZD5+6	36455	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD5+6 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-22	Original data input of adapter A.PZD6+7	36457	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD6+7 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-23	Original data input of adapter A.PZD7+8	36459	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the data input of double word PZD7+8 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-24	Original data input of adapter A.PZD8+9	36461	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD8+9 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-25	Original data input of adapter A.PZD9+10	36463	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD9+10 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-26	Original data input of adapter A.PZD10+11	36465	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD10+11 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-27	Original data input of adapter A.PZD11+12	36467	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD11+12 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-28	Original data input of adapter A.PZD12+13	36469	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays the data input of double word PZD12+13 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-29	Original data input of adapter A.PZD13+14	36471	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD13+14 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-30	Original data input of adapter A.PZD14+15	36473	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD14+15 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-31	Original data input of adapter A.PZD15+16	36475	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD15+16 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-32	PZD1+PZD2 data input (after base value conversion) of adapter A	37382	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD1+2 of adapter A after base value conversion. Note: It can be monitored through U29-70 (Input data of adapter A.PZD1+2 after base value conversion).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n33-33	PZD2+PZD3 data input (after base value conversion) of adapter A	37384	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD2+3 of adapter A after base value conversion. Note: It can be monitored through U29-71 (Input data of adapter A.PZD2+3 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-34	PZD3+PZD4 data input (after base value conversion) of adapter A	37386	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD3+4 of adapter A after base value conversion. Note: It can be monitored through U29-72 (Input data of adapter A.PZD3+4 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-35	PZD4+PZD5 data input (after base value conversion) of adapter A	37388	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD4+5 of adapter A after base value conversion. Note: It can be monitored through U29-73 (Input data of adapter A.PZD4+5 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-36	PZD5+PZD6 data input (after base value conversion)	37390	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	of adapter A								
	Description: Displays the data input of double word PZD5+6 of adapter A after base value conversion. Note: It can be monitored through U29-74 (Input data of adapter A.PZD5+6 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-37	PZD6+PZD7 data input (after base value conversion) of adapter A	37392	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD6+7 of adapter A after base value conversion. Note: It can be monitored through U29-75 (Input data of adapter A.PZD6+7 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-38	PZD7+PZD8 data input (after base value conversion) of adapter A	37394	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD7+8 of adapter A after base value conversion. Note: It can be monitored through U29-76 (Input data of adapter A.PZD7+8 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-39	PZD8+PZD9 data input (after base value conversion) of adapter A	37396	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD8+9 of adapter A after base value conversion.								

	Note: It can be monitored through U29-77 (Input data of adapter A.PZD8+9 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-40	PZD9+PZD10 data input (after base value conversion) of adapter A	37398	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD9+10 of adapter A after base value conversion. Note: It can be monitored through U29-78 (Input data of adapter A.PZD9+10 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-41	PZD10+PZD11 data input (after base value conversion) of adapter A	37400	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD10+11 of adapter A after base value conversion. Note: It can be monitored through U29-79 (Input data of adapter A.PZD10+11 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-42	PZD11+PZD12 data input (after base value conversion) of adapter A	37402	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD11+12 of adapter A after base value conversion. Note: It can be monitored through U29-80 (Input data of adapter A.PZD11+12 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n33-43	PZD12+PZD13 data input (after base value conversion) of adapter A	37404	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD12+13 of adapter A after base value conversion. Note: It can be monitored through U29-81 (Input data of adapter A.PZD12+13 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-44	PZD13+PZD14 data input (after base value conversion) of adapter A	37406	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD13+14 of adapter A after base value conversion. Note: It can be monitored through U29-82 (Input data of adapter A.PZD13+14 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-45	PZD14+PZD15 data input (after base value conversion) of adapter A	37408	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of double word PZD14+15 of adapter A after base value conversion. Note: It can be monitored through U29-83 (Input data of adapter A.PZD14+15 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-46	PZD15+PZD16 data input (after base value conversion) of adapter A	37410	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

Description:

Displays the data input of double word PZD15+16 of adapter A after base value conversion.

Note:

It can be monitored through U29-84 (Input data of adapter A.PZD15+16 after base value conversion).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-47	Extension PZD double word input of adapter A	7647	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 input	0: Inhibited 1: Enabled
bit1-	PZD18+19 input	0: Inhibited 1: Enabled
bit2-	PZD19+20 input	0: Inhibited 1: Enabled
bit3-	PZD20+21 input	0: Inhibited 1: Enabled
bit4-	PZD21+22 input	0: Inhibited 1: Enabled
bit5-	PZD22+23 input	0: Inhibited 1: Enabled
bit6-	PZD23+24 input	0: Inhibited 1: Enabled
bit7-	PZD24+25 input	0: Inhibited 1: Enabled
bit8-	PZD25+26 input	0: Inhibited 1: Enabled
bit9-	PZD26+27 input	0: Inhibited 1: Enabled
bit10-	PZD27+28 input	0: Inhibited 1: Enabled
bit11-	PZD28+29 input	0: Inhibited 1: Enabled
bit12-	PZD29+30 input	0: Inhibited 1: Enabled

	bit13-	PZD30+31 input	0: Inhibited 1: Enabled
	bit14-	PZD31+32 input	0: Inhibited 1: Enabled
	bit15-	Reserved	0: Inhibited 1: Enabled

Description:

Used to enable double word input of expansion PZD of adapter A.

Note:

The expansion double word sent by the host controller is divided into two single words, which are then converted with high/low bytes (High/Low byte selection of PZD expansion double word of adapter A (n33-48)) and base value (n33-49 to n33-63) to be saved to the connector (U39).

To use adapter A to expand the double word input function, you need to enable the expansion word of bus adapter A, which is set by n37-00 (Expansion process data of adapter A).

This function is only available in some communication cards.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-48	High/Low byte selection of expansion PZD double word input of adapter A	7648	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 input	0: PZD17 low word, PZD18 high word 1: PZD17 high word, PZD18 low word
bit1-	PZD18+19 input	0: PZD18 low word, PZD19 high word 1: PZD18 high word, PZD19 low word
bit2-	PZD19+20 input	0: PZD19 low word, PZD20 high word 1: PZD19 high word, PZD20 low word
bit3-	PZD20+21 input	0: PZD20 low word, PZD21 high word 1: PZD20 high word, PZD21 low word
bit4-	PZD21+22 input	0: PZD21 low word, PZD22 high word 1: PZD21 high word, PZD22 low word
bit5-	PZD22+23 input	0: PZD22 low word, PZD23 high word 1: PZD22 high word, PZD23 low word
bit6-	PZD23+24 input	0: PZD23 low word, PZD24 high word 1: PZD23 high word, PZD24 low word

bit7-	PZD24+25 input	0: PZD24 low word, PZD25 high word 1: PZD24 high word, PZD25 low word	
bit8-	PZD25+26 input	0: PZD25 low word, PZD26 high word 1: PZD25 high word, PZD26 low word	
bit9-	PZD26+27 input	0: PZD26 low word, PZD27 high word 1: PZD26 high word, PZD27 low word	
bit10-	PZD27 + 28 input	0: PZD27 low word, PZD28 high word 1: PZD27 high word, PZD28 low word	
bit11-	PZD28+29 input	0: PZD28 low word, PZD29 high word 1: PZD28 high word, PZD29 low word	
bit12-	PZD29+30 input	0: PZD29 low word, PZD30 high word 1: PZD29 high word, PZD30 low word	
bit13-	PZD30+31 input	0: PZD30 low word, PZD31 high word 1: PZD30 high word, PZD31 low word	
bit14-	PZD31 + 32 input	0: PZD31 low word, PZD32 high word 1: PZD31 high word, PZD32 low word	
bit15-	Reserved	0: Disable 1: Enable	

Description:

Defines the sequence of high and low bytes of expansion PZD double word input of adapter A.

Note:

This parameter is the same as n33-01 (High/Low byte selection of PZD double word input of adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-49	Communication base value of PZD17+18 data input	7649	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:

Defines the communication base value of PZD17+18 data input of adapter A.

Note:

PZD17+18 data input of bus adapter A after base value conversion (U39-00) = Original data display of adapter A.PZD17+18 (n33-64) x PZD17+18 Communication base value input (n33-49)/(4096 x 65536). When the communication base value for PZD17+18 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Communication base value of PZD18+19 data input	7651	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n33-50	Description: Defines the communication base value of PZD18+19 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD18+19 after base value conversion (U39-01) = Original data display of adapter A.PZD18+19 (n33-65) x PZD18+19 Communication base value input (n33-50)/(4096 x 65536). When the communication base value for PZD18+19 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD19+20 data input	7653	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n33-51	Description: Defines the communication base value of PZD19+20 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD19+20 after base value conversion (U39-02) = Original data display of adapter A.PZD19+20 (n33-66) x PZD19+20 Communication base value input (n33-51)/(4096 x 65536). When the communication base value for PZD19+20 is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD20+21 data input	7655	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n33-52	Description: Defines the communication base value of PZD20+21 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD20+21 after base value conversion (U39-03) = Original data display of adapter A.PZD20+21 (n33-67) x PZD20+21 Communication base value input (n33-52)/(4096 x 65536). When the communication base value for PZD20+21 is 0, base value conversion is not performed.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n33-53	Communication base value of PZD21+22 data input	7657	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD21+22 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD21+22 after base value conversion (U39-04) = Original data display of adapter A.PZD21+22 (n33-68) x PZD21+22 Communication base value input (n33-53)/(4096 x 65536). When the communication base value for PZD21+22 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-54	Communication base value of PZD22+23 data input	7659	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD22+23 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD22+23 after base value conversion (U39-05) = Original data display of adapter A.PZD22+23 (n33-69) x PZD22+23 Communication base value input (n33-54)/(4096 x 65536). When the communication base value for PZD22+23 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-55	Communication base value of PZD23+24 data input	7661	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD23+24 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD23+24 after base value conversion (U39-06) = Original data display of adapter A.PZD23+24 (n33-70) x PZD23+24 Communication base value input (n33-55)/(4096 x 65536). When the communication base value for PZD23+24 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-56	Communication base value of PZD24+25 data input	7663	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD24+25 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD24+25 after base value conversion (U39-07) = Original data display of adapter A.PZD24+25 (n33-71) x PZD24+25 Communication base value input (n33-56)/(4096 x 65536). When the communication base value for PZD24+25 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-57	Communication base value of PZD25+26 data input	7665	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD25+26 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD25+26 after base value conversion (U39-08) = Original data display of adapter A.PZD25+26 (n33-72) x PZD25+26 Communication base value input (n33-57)/(4096 x 65536). When the communication base value for PZD25+26 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-58	Communication base value of PZD26+27 data input	7667	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD26+27 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD26+27 after base value conversion (U39-09) = Original data display of adapter A.PZD26+27 (n33-73) x PZD26+27 Communication base value input (n33-58)/(4096 x 65536). When								

	the communication base value for PZD26+27 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-59	Communication base value of PZD27+28 data input	7669	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:
Defines the communication base value of PZD27+28 data input of adapter A.

Note:
Input expansion double word process data of bus adapter A.PZD27+28 after base value conversion (U39-10) = Original data display of adapter A.PZD27+28 (n33-74) x PZD27+28 Communication base value input (n33-59)/(4096 x 65536). When the communication base value for PZD27+28 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-60	Communication base value of PZD28+29 data input	7671	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:
Defines the communication base value of PZD28+29 data input of adapter A.

Note:
Input expansion double word process data of bus adapter A.PZD28+29 after base value conversion (U39-11) = Original data display of adapter A.PZD28+29 (n33-75) x PZD28+29 Communication base value input (n33-60)/(4096 x 65536). When the communication base value for PZD28+29 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-61	Communication base value of PZD29+30 data input	7673	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:
Defines the communication base value of PZD29+30 data input of adapter A.

Note:
Input data of bus adapter A.PZD29+30 (after base value conversion) (U39-12) = Original data input display of adapter

	A.PZD29+30 (n33-76) x Input communication base value of PZD29+30 (n33-61)/ (4096 x 65536). When the communication base value for PZD29+30 is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-62	Communication base value of PZD30+31 data input	7675	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD30+31 data input of adapter A. Note: PZD30+31 data input of bus adapter A after base value conversion (U39-13) = Original data display of adapter A.PZD30+31 (n33-77) x PZD30+31 Communication base value input (n33-62)/(4096 x 65536). When the communication base value for PZD30+31 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-63	Communication base value of PZD31+32 data input	7677	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD31+32 data input of adapter A. Note: Input expansion double word process data of bus adapter A.PZD31+32 after base value conversion (U39-14) = Original data display of adapter A.PZD31+32 (n33-78) x PZD31+32 Communication base value input (n33-63)/(4096 x 65536). When the communication base value for PZD31+32 is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-64	Original data input of adapter A.PZD17+18	37166	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD17+18 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n33-65	Original data input of adapter A.PZD18+19	37168	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD18+19 of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-66	Original data input of adapter A.PZD19+20	37170	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD19+20 of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-67	Original data input of adapter A.PZD20+21	37172	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD20+21 of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-68	Original data input of adapter A.PZD21+22	37174	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD21+22 of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-69	Original data input of adapter A.PZD22+23	37176	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD22+23 of adapter A.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n33-70	Original data input of adapter A.PZD23+24	37178	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD23+24 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-71	Original data input of adapter A.PZD24+25	37180	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD24+25 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-72	Original data input of adapter A.PZD25+26	37182	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD25+26 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-73	Original data input of adapter A.PZD26+27	37184	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD26+27 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-74	Original data input of adapter A.PZD27+28	37186	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD27+28 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-75	Original data input of adapter A.PZD28+29	37188	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD28+29 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-76	Original data input of adapter A.PZD29+30	37190	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD29+30 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-77	Original data input of adapter A.PZD30+31	37192	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD30+31 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-78	Original data input of adapter A.PZD31+32	37194	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD31+32 of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-79	PZD17+PZD18 data input (after base value conversion) of adapter A	37196	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the data input of PZD17+18 of adapter A after base value conversion. Note: It can be monitored through U39-00 (Input data of adapter A.PZD17+18 after base value conversion).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-80	PZD18+PZD19 data input (after base value conversion) of adapter A	37198	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD18+19 of adapter A after base value conversion. Note: It can be monitored through U39-01 (Input data of adapter A.PZD18+19 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-81	PZD19+PZD20 data input (after base value conversion) of adapter A	37200	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD19+20 of adapter A after base value conversion. Note: It can be monitored through U39-02 (Input data of adapter A.PZD19+20 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-82	PZD20+PZD21 data input (after base value conversion) of adapter A	37202	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD20+21 of adapter A after base value conversion. Note: It can be monitored through U39-03 (Input data of adapter A.PZD20+21 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-83	PZD21+PZD22 data input (after base value conversion) of adapter A	37204	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD21+22 of adapter A after base value conversion. Note: It can be monitored through U39-04 (Input data of adapter A.PZD21+22 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-84	PZD22+PZD23 data input (after base value conversion) of adapter A	37206	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD22+23 of adapter A after base value conversion. Note: It can be monitored through U39-05 (Input data of adapter A.PZD22+23 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-85	PZD23+PZD24 data input (after base value conversion) of adapter A	37208	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD23+24 of adapter A after base value conversion. Note: It can be monitored through U39-06 (Input data of adapter A.PZD23+24 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-86	PZD24+PZD25 data input (after base	37210	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	value conversion) of adapter A		+2147483647				changed		time
	Description: Displays the data input of PZD24+25 of adapter A after base value conversion. Note: It can be monitored through U39-07 (Input data of adapter A.PZD24+25 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-87	PZD25+PZD26 data input (after base value conversion) of adapter A	37212	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD25+26 of adapter A after base value conversion. Note: It can be monitored through U39-08 (Input data of adapter A.PZD25+26 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-88	PZD26+PZD27 data input (after base value conversion) of adapter A	37214	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD26+27 of adapter A after base value conversion. Note: It can be monitored through U39-09 (Input data of adapter A.PZD26+27 after base value conversion).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-89	PZD27+PZD28 data input (after base value conversion) of adapter A	37216	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD27+28 of adapter A after base value conversion.								

	Note: It can be monitored through U39-10 (Input data of adapter A.PZD27+28 after base value conversion).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-90	PZD28+PZD29 data input (after base value conversion) of adapter A	37218	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD28+29 of adapter A after base value conversion. Note: It can be monitored through U39-11 (Input data of adapter A.PZD28+29 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-91	PZD29+PZD30 data input (after base value conversion) of adapter A	37220	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD29+30 of adapter A after base value conversion. Note: It can be monitored through U39-12 (Input data of adapter A.PZD29+30 after base value conversion).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n33-92	PZD30+PZD31 data input (after base value conversion) of adapter A	37222	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD30+31 of adapter A after base value conversion. Note: It can be monitored through U39-13 (Input data of adapter A.PZD30+31 after base value conversion).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n33-93	PZD31+PZD32 data input (after base value conversion) of adapter A	37224	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD31+32 of adapter A after base value conversion. Note: It can be monitored through U39-14 (Input data of adapter A.PZD31+32 after base value conversion).								

n34 Double word output of fieldbus adapter A process data

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-00	PZD double word output of adapter A	7084	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD1+2 output	0: Inhibited 1: Enabled
bit1-	PZD2+3 output	0: Inhibited 1: Enabled
bit2-	PZD3+4 output	0: Inhibited 1: Enabled
bit3-	PZD4+5 output	0: Inhibited 1: Enabled
bit4-	PZD5+6 output	0: Inhibited 1: Enabled
bit5-	PZD6+7 output	0: Inhibited 1: Enabled
bit6-	PZD7+8 output	0: Inhibited 1: Enabled
bit7-	PZD8+9 output	0: Inhibited 1: Enabled

bit8-	PZD9+10 output	0: Inhibited 1: Enabled
bit9-	PZD10+11 output	0: Inhibited 1: Enabled
bit10-	PZD11+12 output	0: Inhibited 1: Enabled
bit11-	PZD12+13 output	0: Inhibited 1: Enabled
bit12-	PZD13+14 output	0: Inhibited 1: Enabled
bit13-	PZD14+15 output	0: Inhibited 1: Enabled
bit14-	PZD15+16 output	0: Inhibited 1: Enabled
bit15-	Reserved	0: Inhibited 1: Enabled

Description:

Used to enable PZD double word output of adapter A.

Note:

1. The process data is transmitted in single word (16 bits) format. If the host controller needs to receive double word (32 bits) data, bus adapter B can be configured through parameters in group n34. You can monitor through n1-85 (Effective double word PZD of adapter A).

Take PZD1+2 double word output as an example. The double word output source is converted by the base value and then divided into two single words after selection of high/low words of the double word output. N34-32 to n34-46 display the original data of the double word output of adapter A. n34-47 to n34-61 display the processed data of the base value of the double word output of adapter A. n1-52 to n1-67 display the data sent to the host controller.

2. Note that the double word output may conflict when enabled. For example, when PZD1+2 and PZD2+3 are enabled simultaneously, PZD2 is shared. Therefore, PZD1+2 and PZD2+3 outputs are both 0. In this case, this setting is not recommended.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-01	High/Low word selection of PZD double word output of adapter A	7085	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value

bit0-	PZD1+2 output	0: PZD1 low word, PZD2 high word 1: PZD1 high word, PZD2 low word
bit1-	PZD2+3 output	0: PZD2 low word, PZD3 high word 1: PZD2 high word, PZD3 low word
bit2-	PZD3+4 output	0: PZD3 low word, PZD4 high word 1: PZD3 high word, PZD4 low word
bit3-	PZD4+5 output	0: PZD4 low word, PZD5 high word 1: PZD4 high word, PZD5 low word
bit4-	PZD5+6 output	0: PZD5 low word, PZD6 high word 1: PZD5 high word, PZD6 low word
bit5-	PZD6+7 output	0: PZD6 low word, PZD7 high word 1: PZD6 high word, PZD7 low word
bit6-	PZD7+8 output	0: PZD7 low word, PZD8 high word 1: PZD7 high word, PZD8 low word
bit7-	PZD8+9 output	0: PZD8 low word, PZD9 high word 1: PZD8 high word, PZD9 low word
bit8-	PZD9+10 output	0: PZD9 low word, PZD10 high word 1: PZD9 high word, PZD10 low word
bit9-	PZD10+11 output	0: PZD10 low word, PZD11 high word 1: PZD10 high word, PZD11 low word
bit10-	PZD11+12 output	0: PZD11 low word, PZD12 high word 1: PZD11 high word, PZD12 low word
bit11-	PZD12+13 output	0: PZD12 low word, PZD13 high word 1: PZD12 high word, PZD13 low word
bit12-	PZD13+14 output	0: PZD13 low word, PZD14 high word 1: PZD13 high word, PZD14 low word
bit13-	PZD14+15 output	0: PZD14 low word, PZD15 high word 1: PZD14 high word, PZD15 low word
bit14-	PZD15+16 output	0: PZD15 low word, PZD16 high word 1: PZD15 high word, PZD16 low word
bit15-	Reserved	0: Inhibited 1: Enabled

Description：

Defines the high/low byte sequence of the PZD double word output of adapter A.

Note:

The 32-bit data output is divided into two 16-bit data, and the 16 bits are combined into a single 32-bit data after high/low byte conversion. Set based on the actual application.

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n34-02	PZD1+2 output source	7086	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD1+2 of adapter A. Note: PZD1+2 output data of adapter A (after base value conversion) (n34-47) = PZD1+2 output source (n34-02) x PZD1+2 output communication base value (n34-17)/(4096 x 65536). When the communication base value of PZD1+2 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-03	PZD2+3 output source	7087	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD2+3 of adapter A. Note: PZD2+3 output data of adapter A (after base value conversion) (n34-48) = PZD2+3 output source (n34-03) x PZD1+3 output communication base value (n34-18)/(4096 x 65536). When the communication base value of PZD2+3 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-04	PZD3+4 output source	7088	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector
	Description： Defines the data output source of PZD3+4 of adapter A. Note: PZD3+4 output data of adapter A (after base value conversion) (n34-49) = PZD3+4 output source (n34-04) x PZD1+4 output communication base value (n34-19)/(4096 x 65536). When the communication base value of PZD3+4 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-05	PZD4+5 output source	7089	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the data output source of PZD4+5 of adapter A. Note: PZD4+5 output data of adapter A (after base value conversion) (n34-50) = PZD4+5 output source (n34-05) x PZD1+5 output communication base value (n34-20)/(4096 x 65536). When the communication base value of PZD4+5 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-06	PZD5+6 output source	7090	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the data output source of PZD5+6 of adapter A. Note: PZD5+6 output data of adapter A (after base value conversion) (n34-51) = PZD5+6 output source (n34-06) x PZD1+6 output communication base value (n34-21)/(4096 x 65536). When the communication base value of PZD5+6 data output is 0, base								

	value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-07	PZD6+7 output source	7091	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD6+7 of adapter A. Note: PZD6+7 output data of adapter A (after base value conversion) (n34-52) = PZD6+7 output source (n34-07) x PZD1+7 output communication base value (n34-22)/(4096 x 65536). When the communication base value of PZD6+7 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-08	PZD7+8 output source	7092	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD7+8 of adapter A. Note: PZD7+8 output data of adapter A (after base value conversion) (n34-53) = PZD7+8 output source (n34-08) x PZD1+8 output communication base value (n34-23)/(4096 x 65536). When the communication base value of PZD7+8 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-09	PZD8+9 output source	7093	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others： K connector
	Description： Defines the data output source of PZD8+9 of adapter A. Note: PZD8+9 output data of adapter A (after base value conversion) (n34-54) = PZD8+9 output source (n34-09) x PZD1+9 output communication base value (n34-24)/(4096 x 65536). When the communication base value of PZD8+9 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-10	PZD9+10 output source	7094	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the data output source of PZD9+10 of adapter A. Note: PZD9+10 output data of adapter A (after base value conversion) (n34-55) = PZD9+10 output source (n34-10) x PZD1+10 output communication base value (n34-25)/(4096 x 65536). When the communication base value of PZD9+10 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-11	PZD10+11 output source	7095	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the data output source of PZD10+11 of adapter A. Note:								

	PZD10+11 output data of adapter A (after base value conversion) (n34-56) = PZD10+11 output source (n34-11) x PZD1+11 output communication base value (n34-26)/(4096 x 65536). When the communication base value of PZD10+11 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-12	PZD11+12 output source	7096	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD11+12 of adapter A. Note: PZD11+12 output data of adapter A (after base value conversion) (n34-57) = PZD11+12 output source (n34-12) x PZD1+12 output communication base value (n34-27)/(4096 x 65536). When the communication base value of PZD11+12 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-13	PZD12+13 output source	7097	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD12+13 of adapter A. Note: PZD12+13 output data of adapter A (after base value conversion) (n34-58) = PZD12+13 output source (n34-13) x PZD1+13 output communication base value (n34-28)/(4096 x 65536). When the communication base value of PZD12+13 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-	PZD13+14 output	7098	Refer to	0	Unsigned	1	Real time	General	Effective in real

14	source		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD13+14 of adapter A. Note: PZD13+14 output data of adapter A (after base value conversion) (n34-59) = PZD13+14 output source (n34-14) x PZD1+14 output communication base value (n34-29)/(4096 x 65536). When the communication base value of PZD13+14 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-15	PZD14+15 output source	7099	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD14+15 of adapter A. Note: PZD14+15 output data of adapter A (after base value conversion) (n34-60) = PZD14+15 output source (n34-15) x PZD1+15 output communication base value (n34-30)/(4096 x 65536). When the communication base value of PZD14+15 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-16	PZD15+16 output source	7100	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD15+16 of adapter A.								

	Note: PZD15+16 output data of adapter A (after base value conversion) (n34-61) = PZD15+16 output source (n34-16) x PZD1+16 output communication base value (n34-31)/(4096 x 65536). When the communication base value of PZD15+16 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-17	Communication base value of PZD1+2 output	7101	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD1+2 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-18	Communication base value of PZD2+3 output	7103	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD2+3 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-19	Communication base value of PZD3+4 output	7105	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD3+4 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-20	Communication base value of PZD4+5 output	7107	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD4+5 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n34-21	Communication base value of PZD5+6 output	7109	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD5+6 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-22	Communication base value of PZD6+7 output	7111	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD6+7 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-23	Communication base value of PZD7+8 output	7113	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD7+8 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-24	Communication base value of PZD8+9 output	7115	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD8+9 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-25	Communication base value of PZD9+10 output	7117	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD9+10 data output of adapter A.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n34-26	Communication base value of PZD10+11 output	7119	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD10+11 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-27	Communication base value of PZD11+12 output	7121	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD11+12 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-28	Communication base value of PZD12+13 output	7123	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD12+13 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-29	Communication base value of PZD13+14 output	7125	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD13+14 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-30	Communication base value of PZD14+15 output	7127	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD14+15 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-31	Communication base value of PZD15+16 output	7129	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD15+16 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-32	PZD1+2 output data (after base value conversion) of adapter A	36537	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD1+2 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-33	PZD2+3 output data (after base value conversion) of adapter A	36539	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD2+3 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-34	PZD3+4 output data (after base value conversion) of adapter A	36541	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD3+4 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-35	PZD4+5 output data (after base	36543	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	value conversion) of adapter A		+2147483647				changed		time
	Description: Displays the output data of PZD4+5 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-36	PZD5+6 output data (after base value conversion) of adapter A	36545	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD5+6 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-37	PZD6+7 output data (after base value conversion) of adapter A	36547	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD6+7 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-38	PZD7+8 output data (after base value conversion) of adapter A	36549	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD7+8 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-39	PZD8+9 output data (after base value conversion) of adapter A	36551	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the output data of PZD8+9 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-40	PZD9+10 output data (after base value conversion) of adapter A	36553	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD9+10 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-41	PZD10+11 output data (after base value conversion) of adapter A	36555	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD10+11 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-42	PZD11+12 output data (after base value conversion) of adapter A	36557	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD11+12 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-43	PZD12+13 output data (after base value conversion) of adapter A	36559	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD12+13 of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n34-44	PZD13+14 output data (after base value conversion) of adapter A	36561	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD13+14 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-45	PZD14+15 output data (after base value conversion) of adapter A	36563	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD14+15 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-46	PZD15+16 output data (after base value conversion) of adapter A	36565	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD15+16 of adapter A after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-47	Expansion PZD double word output of adapter A	7679	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 output	0: Inhibited 1: Enabled
bit1-	PZD18+19 output	0: Inhibited 1: Enabled
bit2-	PZD19+20 output	0: Inhibited 1: Enabled

bit3-	PZD20+21 output	0: Inhibited 1: Enabled
bit4-	PZD21+22 output	0: Inhibited 1: Enabled
bit5-	PZD22+23 output	0: Inhibited 1: Enabled
bit6-	PZD23+24 output	0: Inhibited 1: Enabled
bit7-	PZD24+25 output	0: Inhibited 1: Enabled
bit8-	PZD25+26 output	0: Inhibited 1: Enabled
bit9-	PZD26+27 output	0: Inhibited 1: Enabled
bit10-	PZD27+28 output	0: Inhibited 1: Enabled
bit11-	PZD28+29 output	0: Inhibited 1: Enabled
bit12-	PZD29+30 output	0: Inhibited 1: Enabled
bit13-	PZD30+31 output	0: Inhibited 1: Enabled
bit14-	PZD31+32 output	0: Inhibited 1: Enabled
bit15-	Reserved	0: Inhibited 1: Enabled

Description：

Used to enable PZD double word output of adapter A.

Note:

When using the bus adapter to send double-word connector data using the expansion double word process data, the 32-bit output data (n34-49 to n34-63) can be divided into two 16-bit data. The data (n34-79 to n34-93) is sent to the host controller after high/low byte conversion (n34-48) and base value conversion (n34-64 to n34-78).

It can be monitored through n37-88 (Effective double word PZD of expansion output of adapter A).

This function is only available in some communication cards.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-48	Selection of high/low byte of	7680	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time	General user	Effective in real

	expansion PZD double word of adapter A						changes		time

Value:

Bit	Name	Value
bit0-	PZD17+18 output	0: PZD17 low word, PZD18 high word 1: PZD17 high word, PZD18 low word
bit1-	PZD18+19 output	0: PZD18 low word, PZD19 high word 1: PZD18 high word, PZD19 low word
bit2-	PZD19+20 output	0: PZD19 low word, PZD20 high word 1: PZD19 high word, PZD20 low word
bit3-	PZD20+21 output	0: PZD20 low word, PZD21 high word 1: PZD20 high word, PZD21 low word
bit4-	PZD21+22 output	0: PZD21 low word, PZD22 high word 1: PZD21 high word, PZD22 low word
bit5-	PZD22+23 output	0: PZD22 low word, PZD23 high word 1: PZD22 high word, PZD23 low word
bit6-	PZD23+24 output	0: PZD23 low word, PZD24 high word 1: PZD23 high word, PZD24 low word
bit7-	PZD24+25 output	0: PZD24 low word, PZD25 high word 1: PZD24 high word, PZD25 low word
bit8-	PZD25+26 output	0: PZD25 low word, PZD26 high word 1: PZD25 high word, PZD26 low word
bit9-	PZD26+27 output	0: PZD26 low word, PZD27 high word 1: PZD26 high word, PZD27 low word
bit10-	PZD27+28 output	0: PZD27 low word, PZD28 high word 1: PZD27 high word, PZD28 low word
bit11-	PZD28+29 output	0: PZD28 low word, PZD29 high word 1: PZD28 high word, PZD29 low word
bit12-	PZD29+30 output	0: PZD29 low word, PZD30 high word 1: PZD29 high word, PZD30 low word
bit13-	PZD30+31 output	0: PZD30 low word, PZD31 high word 1: PZD30 high word, PZD31 low word
bit14-	PZD31+32 output	0: PZD31 low word, PZD32 high word 1: PZD31 high word, PZD32 low word
bit15-	Reserved	0: Inhibited 1: Enabled

Description:

Defines the sequence of high/low bytes of the PZD double word output of adapter A.

	Note: This parameter is the same as n34-01 (Selection of high/low bytes of PZD double word output of adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-49	PZD17+18 output source	7681	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD17+18 of adapter A. Note: PZD17+18 output data of adapter A (after base value conversion) (n34-79) = PZD17+18 output source (n34-49) x PZD17+18 output communication base value (n34-64)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-50	PZD18+19 output source	7682	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD18+19 of adapter A. Note: PZD18+19 output data of adapter A (after base value conversion) (n34-80) = PZD18+19 output source (n34-50) x PZD18+19 output communication base value (n34-65)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-	PZD19+20 output	7683	Refer to	0	Unsigned	1	Real time	General	Effective in real

51	source		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD19+20 of adapter A. Note: PZD19+20 output data of adapter A (after base value conversion) (n34-81) = PZD19+20 output source (n34-51) x PZD19+20 output communication base value (n34-66)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-52	PZD20+21 output source	7684	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD20+21 of adapter A. Note: PZD20+21 output data of adapter A (after base value conversion) (n34-82) = PZD20+21 output source (n34-52) x PZD20+21 output communication base value (n34-67)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-53	PZD21+22 output source	7685	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD21+22 of adapter A.								

	Note: PZD21+22 output data of adapter A (after base value conversion) (n34-83) = PZD21+22 output source (n34-53) x PZD21+22 output communication base value (n34-68)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-54	PZD22+23 output source	7686	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD22+23 of adapter A. Note: PZD22+23 output data of adapter A (after base value conversion) (n34-84) = PZD22+23 output source (n34-54) x PZD22+23 output communication base value (n34-69)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-55	PZD23+24 output source	7687	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD23+24 of adapter A. Note: PZD23+24 output data of adapter A (after base value conversion) (n34-85) = PZD23+24 output source (n34-55) x PZD23+24 output communication base value (n34-70)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n34-56	PZD24+25 output source	7688	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD24+25 of adapter A. Note: PZD24+25 output data of adapter A (after base value conversion) (n34-86) = PZD24+25 output source (n34-56) x PZD24+25 output communication base value (n34-71)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-57	PZD25+26 output source	7689	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD25+26 of adapter A. Note: PZD25+26 output data of adapter A (after base value conversion) (n34-87) = PZD25+26 output source (n34-57) x PZD25+26 output communication base value (n34-72)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-58	PZD26+27 output source	7690	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description： Defines the data output source of PZD26+27 of adapter A. Note: PZD26+27 output data of adapter A (after base value conversion) (n34-88) = PZD26+27 output source (n34-58) x PZD26+27 output communication base value (n34-73)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-59	PZD27+28 output source	7691	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the data output source of PZD27+28 of adapter A. Note: PZD27+28 output data of adapter A (after base value conversion) (n34-89) = PZD27+28 output source (n34-59) x PZD27+28 output communication base value (n34-74)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-60	PZD28+29 output source	7692	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the data output source of PZD28+29 of adapter A. Note: PZD28+29 output data of adapter A (after base value conversion) (n34-90) = PZD28+29 output source (n34-60) x PZD28+29 output communication base value (n34-75)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-61	PZD29+30 output source	7693	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD29+30 of adapter A. Note: PZD29+30 output data of adapter A (after base value conversion) (n34-91) = PZD29+30 output source (n34-61) x PZD29+30 output communication base value (n34-76)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-62	PZD30+31 output source	7694	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD30+31 of adapter A. Note: PZD30+31 output data of adapter A (after base value conversion) (n34-92) = PZD30+31 output source (n34-62) x PZD30+31 output communication base value (n34-77)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-63	PZD31+32 output source	7695	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：0 Others： K connector
	Description： Defines the data output source of PZD31+32 of adapter A. Note: PZD31+32 output data of adapter A (after base value conversion) (n34-93) = PZD31+32 output source (n34-63) x PZD31+32 output communication base value (n34-78)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-64	Communication base value of PZD17+18 output	7696	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description： Defines the communication base value of PZD17+18 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-65	Communication base value of PZD18+19 output	7698	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description： Defines the communication base value of PZD18+19 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-66	Communication base value of PZD19+20 output	7700	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description： Defines the communication base value of PZD19+20 data output of adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-67	Communication base value of PZD20+21 output	7702	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

	Description: Defines the communication base value of PZD20+21 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-68	Communication base value of PZD21+22 output	7704	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD21+22 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-69	Communication base value of PZD22+23 output	7706	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD22+23 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-70	Communication base value of PZD23+24 output	7708	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD23+24 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-71	Communication base value of PZD24+25 output	7710	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD24+25 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-72	Communication base value of	7712	0-2147483647	0	Unsigned 32	1	Real time	General user	Effective in real

	PZD25+26 output						changes		time
	Description: Defines the communication base value of PZD25+26 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-73	Communication base value of PZD26+27 output	7714	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD26+27 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-74	Communication base value of PZD27+28 output	7716	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD27+28 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-75	Communication base value of PZD28+29 output	7718	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD28+29 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-76	Communication base value of PZD29+30 output	7720	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD29+30 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-	Communication	7722	0-	0	Unsigned	1	Real	General	Effective

77	base value of PZD30+31 output		2147483647		32		time changes	user	in real time
	Description: Defines the communication base value of PZD30+31 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-78	Communication base value of PZD31+32 output	7724	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD31+32 data output of adapter A.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-79	PZD17+PZD18 output data (after base value conversion) of adapter A	37226	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD17+18 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-80	PZD18+PZD19 output data (after base value conversion) of adapter A	37228	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD18+19 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-81	PZD19+PZD20 output data (after base value conversion) of adapter A	37230	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays PZD19+20 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-82	PZD20+PZD21 output data (after base value conversion) of adapter A	37232	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD20+21 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-83	PZD21+PZD22 output data (after base value conversion) of adapter A	37234	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD21+22 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-84	PZD22+PZD23 output data (after base value conversion) of adapter A	37236	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD22+23 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-85	PZD23+PZD24 output data (after base value conversion) of adapter A	37238	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays PZD23+24 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-86	PZD24+PZD25 output data (after base value conversion) of adapter A	37240	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD24+25 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-87	PZD25+PZD26 output data (after base value conversion) of adapter A	37242	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD25+26 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-88	PZD26+PZD27 output data (after base value conversion) of adapter A	37244	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD26+27 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-89	PZD27+PZD28 output data (after base value conversion) of adapter A	37246	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays PZD27+28 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-90	PZD28+PZD29 output data (after base value conversion) of adapter A	37248	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD28+29 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-91	PZD29+PZD30 output data (after base value conversion) of adapter A	37250	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD29+30 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-92	PZD30+PZD31 output data (after base value conversion) of adapter A	37252	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD30+31 data output of adapter A after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n34-93	PZD31+PZD32 output data (after base value conversion) of adapter A	37254	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description： Displays PZD31+32 data output of adapter A after base value conversion.

n35 Double word input of fieldbus adapter B process data

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-00	PZD double word input of adapter B	7131	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value：

Bit	Name	Value
bit0-	PZD1+2 input	0: Inhibited 1: Enabled
bit1-	PZD2+3 input	0: Inhibited 1: Enabled
bit2-	PZD3+4 input	0: Inhibited 1: Enabled
bit3-	PZD4+5 input	0: Inhibited 1: Enabled
bit4-	PZD5+6 input	0: Inhibited 1: Enabled
bit5-	PZD6+7 input	0: Inhibited 1: Enabled
bit6-	PZD7+8 input	0: Inhibited 1: Enabled
bit7-	PZD8+9 input	0: Inhibited 1: Enabled
bit8-	PZD9+10 input	0: Inhibited 1: Enabled
bit9-	PZD10+11 input	0: Inhibited 1: Enabled
bit10-	PZD11+12 input	0: Inhibited 1: Enabled
bit11-	PZD12+13 input	0: Inhibited 1: Enabled

bit12-	PZD13+14 input	0: Inhibited 1: Enabled	
bit13-	PZD14+15 input	0: Inhibited 1: Enabled	
bit14-	PZD15+16 input	0: Inhibited 1: Enabled	
bit15-	Reserved	0: Inhibited 1: Enabled	

Description:

Used to enable PZD double word input of adapter B.

Note:

When the process data of the external bus is double word data (32 bits), two single word PZD process data (16 bits) are used to receive double word PZD data.

This function is only available in some communication cards.

For example, the double word sent by the host controller is divided into two single words, PZD1 and PZD2. The separated PZD1 and PZD2 are converted into double words after high/low byte conversion. The combined double word is then being converted based on the base value. The double word data is finally saved in the connector.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-01	Selection of high/low word of PZD double word input of adapter B	7132	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD1+2 input	0: PZD1 low word, PZD2 high word 1: PZD1 high word, PZD2 low word
bit1-	PZD2+3 input	0: PZD2 low word, PZD3 high word 1: PZD2 high word, PZD3 low word
bit2-	PZD3+4 input	0: PZD3 low word, PZD4 high word 1: PZD3 high word, PZD4 low word
bit3-	PZD4+5 input	0: PZD4 low word, PZD5 high word 1: PZD4 high word, PZD5 low word
bit4-	PZD5+6 input	0: PZD5 low word, PZD6 high word 1: PZD5 high word, PZD6 low word
bit5-	PZD6+7 input	0: PZD6 low word, PZD7 high word 1: PZD6 high word, PZD7 low word

bit6-	PZD7+8 input	0: PZD7 low word, PZD8 high word 1: PZD7 high word, PZD8 low word	
bit7-	PZD8+9 input	0: PZD8 low word, PZD9 high word 1: PZD8 high word, PZD9 low word	
bit8-	PZD9+10 input	0: PZD9 low word, PZD10 high word 1: PZD9 high word, PZD10 low word	
bit9-	PZD10+11 input	0: PZD10 low word, PZD11 high word 1: PZD10 high word, PZD11 low word	
bit10-	PZD11+12 input	0: PZD11 low word, PZD12 high word 1: PZD11 high word, PZD12 low word	
bit11-	PZD12+13 input	0: PZD12 low word, PZD13 high word 1: PZD12 high word, PZD13 low word	
bit12-	PZD13+14 input	0: PZD13 low word, PZD14 high word 1: PZD13 high word, PZD14 low word	
bit13-	PZD14+15 input	0: PZD14 low word, PZD15 high word 1: PZD14 high word, PZD15 low word	
bit14-	PZD15+16 input	0: PZD15 low word, PZD16 high word 1: PZD15 high word, PZD16 low word	
bit15-	Reserved	0: Inhibited 1: Enabled	

Description:

Defines the sequence of high/low bytes of PZD double word input of adapter B.

Note:

The 32-bit data received is divided into two 16-bit data, and 16 bits are combined into a single 32-bit data after high/low byte conversion. You can align the data format with the host controller. Set based on the actual application.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-02	Communication base value of PZD1+2 data input	7133	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:

Defines the communication base value of PZD1+2 data input of adapter B.

Note:

PZD1+2 data input of bus adapter B (after base value conversion) (U29-85) = Original data input of PZD1+2 of adapter B (n35-17) x Communication base value of PZD1+2 data input (n35-02)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-03	Communication base value of PZD2+3 data input	7135	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD2+3 data input of adapter B. Note: PZD2+3 data input of bus adapter B (after base value conversion) (U29-86) = Original data input of PZD2+3 of adapter B (n35-18) x Communication base value of PZD2+3 data input (n35-03)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-04	Communication base value of PZD3+4 data input	7137	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD3+4 data input of adapter B. Note: Input data of bus adapter B.PZD3+4 (after base value conversion) (U29-87) = Original data input display of adapter B.PZD3+4 (n35-19) x Input communication base value of PZD3+4 (n35-04)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-05	Communication base value of PZD4+5 data input	7139	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD4+5 data input of adapter B. Note: Input data of bus adapter B.PZD4+5 (after base value conversion) (U29-88) = Original data input display of adapter B.PZD4+5 (n35-20) x Input communication base value of PZD4+5 (n35-05)/ (4096 x 65536). When the communication value of PZD17+18 data output is 3, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n35-06	Communication base value of PZD5+6 data input	7141	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD5+6 data input of adapter B. Note: Input data of bus adapter B.PZD5+6 (after base value conversion) (U29-89) = Original data input display of adapter B.PZD5+6 (n35-21) x Input communication base value of PZD5+6 (n35-06)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-07	Communication base value of PZD6+7 data input	7143	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD6+7 data input of adapter B. Note: Input data of bus adapter B.PZD6+7 (after base value conversion) (U29-90) = Original data input display of adapter B.PZD6+7 (n35-22) x Input communication base value of PZD6+7 (n35-07)/ (4096 x 65536). When the communication value of PZD17+18 data output is 5, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-08	Communication base value of PZD7+8 data input	7145	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD7+8 data input of adapter B. Note: Input data of bus adapter B.PZD7+8 (after base value conversion) (U29-91) = Original data input display of adapter B.PZD7+8 (n35-23) x Input communication base value of PZD7+8 (n35-08)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-	Communication base value of	7147	0-	0	Unsigned	1	Real time	General	Effective in real

09	PZD8+9 data input		2147483647		32		changes	user	time
	Description: Defines the communication base value of PZD8+9 data input of adapter B. Note: Input data of bus adapter B.PZD8+9 (after base value conversion) (U29-92) = Original data input display of adapter B.PZD8+9 (n35-24) x Input communication base value of PZD8+9 (n35-09)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-10	Communication base value of PZD9+10 data input	7149	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD9+10 data input of adapter B. Note: Input data of bus adapter B.PZD9+10 (after base value conversion) (U29-93) = Original data input display of adapter B.PZD9+10 (n35-25) x Input communication base value of PZD9+10 (n35-10)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-11	Communication base value of PZD10+11 data input	7151	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD10+11 data input of adapter B. Note: Input data of bus adapter B.PZD10+11 (after base value conversion) (U29-94) = Original data input display of adapter B.PZD10+11 (n35-26) x Input communication base value of PZD10+11 (n35-11)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-	Communication base value of	7153	0-	0	Unsigned	1	Real time	General	Effective in real

12	PZD11+12 data input		2147483647		32		changes	user	time
	Description: Defines the communication base value of PZD11+12 data input of adapter B. Note: PZD11+12 data input of bus adapter B (after base value conversion) (U29-95) = Original data input of PZD11+12 of adapter B (n35-27) x Communication base value of PZD11+12 data input (n35-12)/(4096 x 65536). When the communication value of PZD17+18 data output is 10, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-13	Communication base value of PZD12+13 data input	7155	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD12+13 data input of adapter B. Note: Input data of bus adapter B.PZD12+13 (after base value conversion) (U29-96) = Original data input display of adapter B.PZD12+13 (n35-28) x Input communication base value of PZD12+13 (n35-13)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-14	Communication base value of PZD13+14 data input	7157	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD13+14 data input of adapter B. Note: Input data of bus adapter B.PZD13+14 (after base value conversion) (U29-97) = Original data input display of adapter B.PZD13+14 (n35-29) x Input communication base value of PZD13+14 (n35-14)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Communication base value of PZD14+15 data input	7159	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-15	Description: Defines the communication base value of PZD14+15 data input of adapter B. Note: Input data of bus adapter B.PZD14+15 (after base value conversion) (U29-98) = Original data input display of adapter B.PZD14+15 (n35-30) x Input communication base value of PZD14+15 (n35-15)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD15+16 data input	7161	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-16	Description: Defines the communication base value of PZD15+16 data input of adapter B. Note: Input data of bus adapter B.PZD15+16 (after base value conversion) (U29-99) = Original data input display of adapter B.PZD15+16 (n35-31) x Input communication base value of PZD15+16 (n35-16)/ (4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-17	Original data input of PZD1+2 of adapter B	36567	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD1+2 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-18	Original data input of PZD2+3 of adapter B	36569	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays the original data input of PZD2+3 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-19	Original data input of PZD3+4 of adapter B	36571	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD3+4 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-20	Original data input of PZD4+5 of adapter B	36573	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD4+5 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-21	Original data input of PZD5+6 of adapter B	36575	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD5+6 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-22	Original data input of PZD6+7 of adapter B	36577	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD6+7 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-23	Original data input of PZD7+8 of adapter B	36579	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays the original data input of PZD7+8 of adapter B.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-24	Original data input of PZD8+9 of adapter B	36581	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD8+9 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-25	Original data input of PZD9+10 of adapter B	36583	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD9+10 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-26	Original data input of PZD10+11 of adapter B	36585	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD10+11 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-27	Original data input of PZD11+12 of adapter B	36587	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD11+12 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-28	Original data input of PZD12+13 of	36589	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	adapter B		+2147483647				changed		time
	Description: Displays the original data input of PZD12+13 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-29	Original data input of PZD13+14 of adapter B	36591	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD13+14 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-30	Original data input of PZD14+15 of adapter B	36593	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD14+15 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-31	Original data input of PZD15+16 of adapter B	36595	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD15+16 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-32	PZD1+PZD2 data input (after base value conversion) of adapter B	37412	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of the double word PZD1+2 of adapter B processed by the base value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n35-33	PZD2+PZD3 data input (after base value conversion) of adapter B	37414	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD2+3 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-34	PZD3+PZD4 data input (after base value conversion) of adapter B	37416	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD3+4 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-35	PZD4+PZD5 data input (after base value conversion) of adapter B	37418	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD4+5 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-36	PZD5+PZD6 data input (after base value conversion) of adapter B	37420	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD5+6 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-37	PZD6+PZD7 data input (after base value conversion) of adapter B	37422	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays the data input of PZD6+7 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-38	PZD7+PZD8 data input (after base value conversion) of adapter B	37424	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD7+8 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-39	PZD8+PZD9 data input (after base value conversion) of adapter B	37426	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD8+9 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-40	PZD9+PZD10 data input (after base value conversion) of adapter B	37428	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD9+10 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-41	PZD10+PZD11 data input (after base value conversion) of adapter B	37430	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD10+11 of adapter B after base value conversion.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n35-42	PZD11+PZD12 data input (after base value conversion) of adapter B	37432	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD11+12 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-43	PZD12+PZD13 data input (after base value conversion) of adapter B	37434	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD12+13 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-44	PZD13+PZD14 data input (after base value conversion) of adapter B	37436	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD13+14 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-45	PZD14+PZD15 data input (after base value conversion) of adapter B	37438	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the data input of PZD14+15 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-46	PZD15+PZD16 data input (after base	37440	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	value conversion) of adapter B		+2147483647				changed		time
	Description: Displays the data input of PZD15+16 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-47	Expansion PZD double word input of adapter B	7726	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 input	0: Inhibited 1: Enabled
bit1-	PZD18+19 input	0: Inhibited 1: Enabled
bit2-	PZD19+20 input	0: Inhibited 1: Enabled
bit3-	PZD20+21 input	0: Inhibited 1: Enabled
bit4-	PZD21+22 input	0: Inhibited 1: Enabled
bit5-	PZD22+23 input	0: Inhibited 1: Enabled
bit6-	PZD23+24 input	0: Inhibited 1: Enabled
bit7-	PZD24+25 input	0: Inhibited 1: Enabled
bit8-	PZD25+26 input	0: Inhibited 1: Enabled
bit9-	PZD26+27 input	0: Inhibited 1: Enabled
bit10-	PZD27+28 input	0: Inhibited 1: Enabled
bit11-	PZD28+29 input	0: Inhibited 1: Enabled
bit12-	PZD29+30 input	0: Inhibited 1: Enabled

	bit13-	PZD30+31 input	0: Inhibited 1: Enabled
	bit14-	PZD31+32 input	0: Inhibited 1: Enabled
	bit15-	Reserved	0: Inhibited 1: Enabled

Description:

Used to enable expansion PZD double word input of adapter B.

Note:

The expansion double word sent by the host controller is divided into two single words, which are then converted with high/low bytes (High/Low byte selection of PZD expansion double word of adapter A (n35-48)) and base value (n35-49 to n35-63) to be saved to the connector (U39).

To use adapter A to expand the double word input function, you need to enable the expansion word of bus adapter A, which is set by n37-00 (Expansion process data of adapter A).

This function is only available in some communication cards.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-48	Selection of high/low word of expansion PZD double word input of adapter B	7727	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 input	0: PZD17 low word, PZD18 high word 1: PZD17 high word, PZD18 low word
bit1-	PZD18+19 input	0: PZD18 low word, PZD19 high word 1: PZD18 high word, PZD19 low word
bit2-	PZD19+20 input	0: PZD19 low word, PZD20 high word 1: PZD19 high word, PZD20 low word
bit3-	PZD20+21 input	0: PZD20 low word, PZD21 high word 1: PZD20 high word, PZD21 low word
bit4-	PZD21+22 input	0: PZD21 low word, PZD22 high word 1: PZD21 high word, PZD22 low word
bit5-	PZD22+23 input	0: PZD22 low word, PZD23 high word 1: PZD22 high word, PZD23 low word
bit6-	PZD23+24 input	0: PZD23 low word, PZD24 high word 1: PZD23 high word, PZD24 low word

bit7-	PZD24+25 input	0: PZD24 low word, PZD25 high word 1: PZD24 high word, PZD25 low word	
bit8-	PZD25+26 input	0: PZD25 low word, PZD26 high word 1: PZD25 high word, PZD26 low word	
bit9-	PZD26+27 input	0: PZD26 low word, PZD27 high word 1: PZD26 high word, PZD27 low word	
bit10-	PZD27 + 28 input	0: PZD27 low word, PZD28 high word 1: PZD27 high word, PZD28 low word	
bit11-	PZD28+29 input	0: PZD28 low word, PZD29 high word 1: PZD28 high word, PZD29 low word	
bit12-	PZD29+30 input	0: PZD29 low word, PZD30 high word 1: PZD29 high word, PZD30 low word	
bit13-	PZD30+31 input	0: PZD30 low word, PZD31 high word 1: PZD30 high word, PZD31 low word	
bit14-	PZD31 + 32 input	0: PZD31 low word, PZD32 high word 1: PZD31 high word, PZD32 low word	
bit15-	Reserved	0: Disable 1: Enable	

Description:

Defines the sequence of high/low bytes of expansion PZD double word input of adapter B.

Note:

This parameter is the same as n35-01 (Selection of high/low word of PZD double word input of adapter B).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-49	Communication base value of PZD17+18 data input	7728	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

Description:

Defines the communication base value of PZD17+18 data input of adapter B.

Note:

PZD17+18 data input of bus adapter B after base value conversion (U39-15) = Original data input of PZD17+18 (n35-64) x Communication base value of PZD17+18 data input (n35-49)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Communication base value of PZD18+19 data input	7730	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-50	Description: Defines the communication base value of PZD18+19 data input of adapter B. Note: PZD18+19 data input of bus adapter B after base value conversion (U39-16) = Original data input of PZD18+19 (n35-65) x Communication base value of PZD18+19 data input (n35-50)/(4096 x 65536). When the communication base value of PZD18+19 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD19+20 data input	7732	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-51	Description: Defines the communication base value of PZD19+20 data input of adapter B. Note: PZD19+20 data input of bus adapter B after base value conversion (U39-17) = Original data input of PZD19+20 (n35-66) x Communication base value of PZD19+20 data input (n35-51)/(4096 x 65536). When the communication base value of PZD19+20 data input is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD20+21 data input	7734	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-52	Description: Defines the communication base value of PZD20+21 data input of adapter B. Note: PZD20+21 data input of bus adapter B after base value conversion (U39-18) = Original data input of PZD20+21 (n35-67) x Communication base value of PZD20+21 data input (n35-51)/(4096 x 65536). When the communication base value of PZD20+21 data input is 0, base value conversion is not performed.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
	Communication base value of PZD21+22 data input	7736	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-53	Description: Defines the communication base value of PZD21+22 data input of adapter B. Note: PZD21+22 data input of bus adapter B after base value conversion (U39-19) = Original data input of PZD21+22 (n35-68) x Communication base value of PZD21+22 data input (n35-53)/(4096 x 65536). When the communication base value of PZD21+22 data input is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD22+23 data input	7738	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-54	Description: Defines the communication base value of PZD22+23 data input of adapter B. Note: PZD22+23 data input of bus adapter B after base value conversion (U39-20) = Original data input of PZD22+23 (n35-69) x Communication base value of PZD22+23 data input (n35-54)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Communication base value of PZD23+24 data input	7740	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
n35-55	Description: Defines the communication base value of PZD23+24 data input of adapter B. Note: PZD23+24 data input of bus adapter B after base value conversion (U39-21) = Original data input of PZD23+24 (n35-70) x Communication base value of PZD23+24 data input (n35-55)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-56	Communication base value of PZD24+25 data input	7742	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD24+25 data input of adapter B. Note: PZD24+25 data input of bus adapter B after base value conversion (U39-22) = Original data input of PZD24+25 (n35-71) x Communication base value of PZD24+25 data input (n35-56)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-57	Communication base value of PZD25+26 data input	7744	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD25+26 data input of adapter B. Note: PZD25+26 data input of bus adapter B after base value conversion (U39-23) = Original data input of PZD25+26 (n35-72) x Communication base value of PZD25+26 data input (n35-57)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-58	Communication base value of PZD26+27 data input	7746	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD26+27 data input of adapter B. Note: PZD26+27 data input of bus adapter B after base value conversion (U39-24) = Original data input of PZD26+27 (n35-73) x Communication base value of PZD26+27 data input (n35-58)/(4096 x 65536). When the communication value of PZD17+18								

	data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-59	Communication base value of PZD27+28 data input	7748	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD27+28 data input of adapter B. Note: PZD27+28 data input of bus adapter B after base value conversion (U39-25) = Original data input of PZD27+28 (n35-74) x Communication base value of PZD27+28 data input (n35-59)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-60	Communication base value of PZD28+29 data input	7750	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD28+29 data input of adapter B. Note: PZD28+29 data input of bus adapter B after base value conversion (U39-26) = Original data input of PZD28+29 (n35-75) x Communication base value of PZD28+29 data input (n35-60)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-61	Communication base value of PZD29+30 data input	7752	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD29+30 data input of adapter B. Note: PZD29+30 data input of bus adapter B after base value conversion (U39-27) = Original data input of PZD29+30 (n35-76) x								

	Communication base value of PZD29+30 data input (n35-61)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-62	Communication base value of PZD30+31 data input	7754	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD30+31 data input of adapter B. Note: PZD30+31 data input of bus adapter B after base value conversion (U39-28) = Original data input of PZD30+31 (n35-77) x Communication base value of PZD30+31 data input (n35-62)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-63	Communication base value of PZD31+32 data input	7756	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD31+32 data input of adapter B. Note: PZD31+32 data input of bus adapter B after base value conversion (U39-29) = Original data input of PZD31+32 (n35-78) x Communication base value of PZD31+32 data input (n35-63)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-64	Original data input of PZD17+18 of adapter B	37256	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD17+18 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n35-65	Original data input of adapter B.PZD18+19	37258	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD18+19 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-66	Original data input of adapter B.PZD19+20	37260	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD19+20 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-67	Original data input of adapter B.PZD20+21	37262	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD20+21 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-68	Original data input of adapter B.PZD21+22	37264	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD21+22 of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-69	Original data input of adapter B.PZD22+23	37266	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD22+23 of adapter B.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n35-70	Original data input of adapter B.PZD23+24	37268	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD23+24 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-71	Original data input of adapter B.PZD24+25	37270	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD24+25 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-72	Original data input of adapter B.PZD25+26	37272	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD25+26 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-73	Original data input of adapter B.PZD26+27	37274	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD26+27 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-74	Original data input of adapter B.PZD27+28	37276	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD27+28 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-75	Original data input of adapter B.PZD28+29	37278	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD28+29 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-76	Original data input of adapter B.PZD29+30	37280	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD29+30 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-77	Original data input of adapter B.PZD30+31	37282	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD30+31 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-78	Original data input of adapter B.PZD31+32	37284	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data input of PZD31+32 of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-79	PZD17+PZD18 data input (after base value conversion) of adapter B	37286	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description:								

	Displays PZD17+PZD18 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-80	PZD18+PZD19 data input (after base value conversion) of adapter B	37288	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD18+PZD19 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-81	PZD19+PZD20 data input (after base value conversion) of adapter B	37290	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD19+PZD20 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-82	PZD20+PZD21 data input (after base value conversion) of adapter B	37292	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD20+PZD21 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-83	PZD21+PZD22 data input (after base value conversion) of adapter B	37294	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD21+PZD22 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n35-84	PZD22+PZD23 data input (after base value conversion) of adapter B	37296	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD22+PZD23 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-85	PZD23+PZD24 data input (after base value conversion) of adapter B	37298	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD23+PZD24 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-86	PZD24+PZD25 data input (after base value conversion) of adapter B	37300	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD24+PZD25 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-87	PZD25+PZD26 data input (after base value conversion) of adapter B	37302	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD25+PZD26 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-88	PZD26+PZD27 data input (after base value conversion) of adapter B	37304	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays PZD26+PZD27 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-89	PZD27+PZD28 data input (after base value conversion) of adapter B	37306	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD27+PZD28 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-90	PZD28+PZD29 data input (after base value conversion) of adapter A	37308	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD28+PZD29 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-91	PZD29+PZD30 data input (after base value conversion) of adapter B	37310	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD29+PZD30 data input of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n35-92	PZD30+PZD31 data input (after base value conversion) of adapter B	37312	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD30+PZD31 data input of adapter B after base value conversion.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n35-93	PZD31+PZD32 data input (after base value conversion) of adapter B	37314	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD31+PZD32 data input of adapter B after base value conversion.								

n36 Double word output of fieldbus adapter B process data

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-00	PZD double word output of adapter B	7163	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD1+2 output	0: Inhibited 1: Enabled
bit1-	PZD2+3 output	0: Inhibited 1: Enabled
bit2-	PZD3+4 output	0: Inhibited 1: Enabled
bit3-	PZD4+5 output	0: Inhibited 1: Enabled
bit4-	PZD5+6 output	0: Inhibited 1: Enabled
bit5-	PZD6+7 output	0: Inhibited 1: Enabled
bit6-	PZD7+8 output	0: Inhibited 1: Enabled
bit7-	PZD8+9 output	0: Inhibited 1: Enabled
bit8-	PZD9+10 output	0: Inhibited 1: Enabled
bit9-	PZD10+11 output	0: Inhibited 1: Enabled

bit10-	PZD11+12 output	0: Inhibited 1: Enabled
bit11-	PZD12+13 output	0: Inhibited 1: Enabled
bit12-	PZD13+14 output	0: Inhibited 1: Enabled
bit13-	PZD14+15 output	0: Inhibited 1: Enabled
bit14-	PZD15+16 output	0: Inhibited 1: Enabled
bit15-	Reserved	0: Inhibited 1: Enabled

Description:

Used to enable PZD double word output of adapter B.

Note:

1. The process data is transmitted in single word (16 bits) format. If the host controller needs to receive double word (32 bits) data, bus adapter B can be configured through parameters in group n36. You can monitor through n2-85 (Effective double word PZD of adapter B).

Take PZD1+2 double word output as an example. The double word output source is converted by the base value and then divided into two single words after selection of high/low words of the double word output. n34-32 to n36-46 display the original data of the double word output of adapter B. n36-47 to n36-61 display the double word output of adapter B after base value conversion. n2-52 to n2-67 display the data sent to the host controller.

2. Note that the double word output may conflict when enabled. For example, when PZD1+2 and PZD2+3 are enabled simultaneously, PZD2 is shared. Therefore, PZD1+2 and PZD2+3 outputs are both 0. In this case, this setting is not recommended.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-01	Selection of high/low word of PZD double word output of adapter B	7164	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD1+2 output	0: PZD1 low word, PZD2 high word 1: PZD1 high word, PZD2 low word
bit1-	PZD2+3 output	0: PZD2 low word, PZD3 high word 1: PZD2 high word, PZD3 low word

bit2-	PZD3+4 output	0: PZD3 low word, PZD4 high word 1: PZD3 high word, PZD4 low word
bit3-	PZD4+5 output	0: PZD4 low word, PZD5 high word 1: PZD4 high word, PZD5 low word
bit4-	PZD5+6 output	0: PZD5 low word, PZD6 high word 1: PZD5 high word, PZD6 low word
bit5-	PZD6+7 output	0: PZD6 low word, PZD7 high word 1: PZD6 high word, PZD7 low word
bit6-	PZD7+8 output	0: PZD7 low word, PZD8 high word 1: PZD7 high word, PZD8 low word
bit7-	PZD8+9 output	0: PZD8 low word, PZD9 high word 1: PZD8 high word, PZD9 low word
bit8-	PZD9+10 output	0: PZD9 low word, PZD10 high word 1: PZD9 high word, PZD10 low word
bit9-	PZD10+11 output	0: PZD10 low word, PZD11 high word 1: PZD10 high word, PZD11 low word
bit10-	PZD11+12 output	0: PZD11 low word, PZD12 high word 1: PZD11 high word, PZD12 low word
bit11-	PZD12+13 output	0: PZD12 low word, PZD13 high word 1: PZD12 high word, PZD13 low word
bit12-	PZD13+14 output	0: PZD13 low word, PZD14 high word 1: PZD13 high word, PZD14 low word
bit13-	PZD14+15 output	0: PZD14 low word, PZD15 high word 1: PZD14 high word, PZD15 low word
bit14-	PZD15+16 output	0: PZD15 low word, PZD16 high word 1: PZD15 high word, PZD16 low word
bit15-	Reserved	0: Inhibited 1: Enabled

Description：

Defines the sequence of high/low bytes of PZD double word output of adapter B.

Note:

The 32-bit data output is divided into two 16-bit data, and the 16 bits are combined into a single 32-bit data after high/low byte conversion. Set based on the actual application.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-02	PZD1+2 output source	7165	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others： K connector
	Description： Defines the data output source of PZD1+2 of adapter A. Note: PZD1+2 output data of adapter B (after base value conversion) (n36-47) = PZD1+2 output source (n36-02) x Communication base value of PZD1+2 data output (n36-17)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-03	PZD2+3 output source	7166	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the data output source of PZD2+3 of adapter A. Note: PZD2+3 output data of adapter B (after base value conversion) (n36-48) = PZD2+3 output source (n36-03) x Communication base value of PZD2+3 data output (n36-18)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-04	PZD3+4 output source	7167	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines the data output source of PZD3+4 of adapter A. Note:								

	PZD3+4 output data of adapter B (after base value conversion) (n36-49) = PZD3+4 output source (n36-04) x Communication base value of PZD3+4 data output (n36-19)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-05	PZD4+5 output source	7168	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD4+5 of adapter A. Note: PZD4+5 output data of adapter B (after base value conversion) (n36-50) = PZD4+5 output source (n36-05) x Communication base value of PZD4+5 data output (n36-20)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-06	PZD5+6 output source	7169	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD5+6 of adapter A. Note: PZD5+6 output data of adapter B (after base value conversion) (n36-51) = PZD5+6 output source (n36-06) x Communication base value of PZD5+6 data output (n36-21)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-	PZD6+7 output	7170	Refer to	0	Unsigned	1	Real time	General	Effective in real

07	source		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD6+7 of adapter A. Note: PZD6+7 output data of adapter B (after base value conversion) (n36-52) = PZD6+7 output source (n36-07) x Communication base value of PZD6+7 data output (n36-22)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-08	PZD7+8 output source	7171	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD7+8 of adapter A. Note: PZD7+8 output data of adapter B (after base value conversion) (n36-53) = PZD7+8 output source (n36-08) x Communication base value of PZD7+8 data output (n36-23)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-09	PZD8+9 output source	7172	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD8+9 of adapter A.								

	Note: PZD8+9 output data of adapter B (after base value conversion) (n36-54) = PZD8+9 output source (n36-09) x Communication base value of PZD8+9 data output (n36-24)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-10	PZD9+10 output source	7173	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD9+10 of adapter A. Note: PZD9+10 output data of adapter B (after base value conversion) (n36-55) = PZD9+10 output source (n36-10) x Communication base value of PZD9+10 data output (n36-25)/(4096 x 65536). When the communication base value of PZD9+10 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-11	PZD10+11 output source	7174	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD10+11 of adapter A. Note: PZD10+11 output data of adapter B (after base value conversion) (n36-56) = PZD10+11 output source (n36-11) x Communication base value of PZD10+11 data output (n36-26)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n36-12	PZD11+12 output source	7175	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD11+12 of adapter A. Note: PZD11+12 output data of adapter B (after base value conversion) (n36-57) = PZD11+12 output source (n36-12) x Communication base value of PZD11+12 data output (n36-27)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-13	PZD12+13 output source	7176	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD12+13 of adapter A. Note: PZD12+13 output data of adapter B (after base value conversion) (n36-58) = PZD12+13 output source (n36-13) x Communication base value of PZD12+13 data output (n36-28)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-14	PZD13+14 output source	7177	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description： Defines the data output source of PZD13+14 of adapter A. Note: PZD13+14 output data of adapter B (after base value conversion) (n36-59) = PZD13+14 output source (n36-14) x Communication base value of PZD13+14 data output (n36-29)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-15	PZD14+15 output source	7178	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the data output source of PZD14+15 of adapter A. Note: PZD14+15 output data of adapter B (after base value conversion) (n36-60) = PZD14+15 output source (n36-15) x Communication base value of PZD14+15 data output (n36-30)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-16	PZD15+16 output source	7179	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the data output source of PZD15+16 of adapter A. Note: PZD15+16 output data of adapter B (after base value conversion) (n36-61) = PZD15+16 output source (n36-16) x Communication base value of PZD15+16 data output (n36-31)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-17	Communication base value of PZD1+2 output	7180	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD1+2 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-18	Communication base value of PZD2+3 output	7182	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD2+3 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-19	Communication base value of PZD3+4 output	7184	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD3+4 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-20	Communication base value of PZD4+5 output	7186	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD4+5 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-21	Communication base value of PZD5+6 output	7188	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the communication base value of the PZD5+6 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-22	Communication base value of PZD6+7 output	7190	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD6+7 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-23	Communication base value of PZD7+8 output	7192	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD7+8 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-24	Communication base value of PZD8+9 output	7194	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD8+9 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-25	Communication base value of PZD9+10 output	7196	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD9+10 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-26	Communication base value of PZD10+11 output	7198	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time

	Description: Defines the communication base value of the PZD10+11 data output of adapter B.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-27	Communication base value of PZD11+12 output	7200	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD11+12 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-28	Communication base value of PZD12+13 output	7202	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD12+13 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-29	Communication base value of PZD13+14 output	7204	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD13+14 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-30	Communication base value of PZD14+15 output	7206	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of the PZD14+15 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-31	Communication base value of	7208	0-2147483647	0	Unsigned 32	1	Real time	General user	Effective in real

	PZD15+16 output						changes		time
	Description: Defines the communication base value of the PZD15+16 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-32	PZD1+2 data output (after base value conversion) of adapter B	36657	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD1+2 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-33	PZD2+3 data output (after base value conversion) of adapter B	36659	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD2+3 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-34	PZD3+4 data output (after base value conversion) of adapter B	36661	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD3+4 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-35	PZD4+5 data output (after base value conversion) of adapter B	36663	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD4+5 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-36	PZD5+6 data output (after base value conversion) of adapter B	36665	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD5+6 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-37	PZD6+7 data output (after base value conversion) of adapter B	36667	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD6+7 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-38	PZD7+8 data output (after base value conversion) of adapter B	36669	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD7+8 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-39	PZD8+9 data output (after base value conversion) of adapter B	36671	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD8+9 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-	PZD9+10 data	36673	-214748364	0	Signed 32	1	Cannot	General	Effective

40	output (after base value conversion) of adapter B		8 to +2147483647				be changed	user	in real time
	Description: Displays the output data of PZD9+10 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-41	PZD10+11 data output (after base value conversion) of adapter B	36675	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD10+11 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-42	PZD11+12 data output (after base value conversion) of adapter B	36677	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD11+12 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-43	PZD12+13 data output (after base value conversion) of adapter B	36679	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD12+13 of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-44	PZD13+14 data output (after base value conversion) of adapter B	36681	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays the output data of PZD13+14 of adapter B after base value conversion.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-45	PZD14+15 data output (after base value conversion) of adapter B	36683	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD14+15 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-46	PZD15+16 data output (after base value conversion) of adapter B	36685	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays the output data of PZD15+16 of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-47	Expansion PZD double word output of adapter B	7758	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 output	0: Inhibited 1: Enabled
bit1-	PZD18+19 output	0: Inhibited 1: Enabled
bit2-	PZD19+20 output	0: Inhibited 1: Enabled
bit3-	PZD20+21 output	0: Inhibited 1: Enabled
bit4-	PZD21+22 output	0: Inhibited 1: Enabled

bit5-	PZD22+23 output	0: Inhibited 1: Enabled
bit6-	PZD23+24 output	0: Inhibited 1: Enabled
bit7-	PZD24+25 output	0: Inhibited 1: Enabled
bit8-	PZD25+26 output	0: Inhibited 1: Enabled
bit9-	PZD26+27 output	0: Inhibited 1: Enabled
bit10-	PZD27+28 output	0: Inhibited 1: Enabled
bit11-	PZD28+29 output	0: Inhibited 1: Enabled
bit12-	PZD29+30 output	0: Inhibited 1: Enabled
bit13-	PZD30+31 output	0: Inhibited 1: Enabled
bit14-	PZD31+32 output	0: Inhibited 1: Enabled
bit15-	Reserved	0: Inhibited 1: Enabled

Description：

Used to enable PZD double word output of adapter B.

Note:

When using the bus adapter to send double-word connector data using the expansion double word process data, the 32-bit output data (n36-49 to n36-63) can be divided into two 16-bit data. The data (n36-79 to n36-93) is sent to the host controller after high/low byte conversion (n36-48) and base value conversion (n36-64 to n36-78).

It can be monitored through n38-88 (Effective double word PZD of expansion output of adapter A).

This function is only available in some communication cards.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-48	Selection of high/low word of expansion PZD double word output of adapter B	7759	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value：

Bit	Name	Value
bit0-	PZD17+18 output	0: PZD17 low word, PZD18 high word 1: PZD17 high word, PZD18 low word
bit1-	PZD18+19 output	0: PZD18 low word, PZD19 high word 1: PZD18 high word, PZD19 low word
bit2-	PZD19+20 output	0: PZD19 low word, PZD20 high word 1: PZD19 high word, PZD20 low word
bit3-	PZD20+21 output	0: PZD20 low word, PZD21 high word 1: PZD20 high word, PZD21 low word
bit4-	PZD21+22 output	0: PZD21 low word, PZD22 high word 1: PZD21 high word, PZD22 low word
bit5-	PZD22+23 output	0: PZD22 low word, PZD23 high word 1: PZD22 high word, PZD23 low word
bit6-	PZD23+24 output	0: PZD23 low word, PZD24 high word 1: PZD23 high word, PZD24 low word
bit7-	PZD24+25 output	0: PZD24 low word, PZD25 high word 1: PZD24 high word, PZD25 low word
bit8-	PZD25+26 output	0: PZD25 low word, PZD26 high word 1: PZD25 high word, PZD26 low word
bit9-	PZD26+27 output	0: PZD26 low word, PZD27 high word 1: PZD26 high word, PZD27 low word
bit10-	PZD27+28 output	0: PZD27 low word, PZD28 high word 1: PZD27 high word, PZD28 low word
bit11-	PZD28+29 output	0: PZD28 low word, PZD29 high word 1: PZD28 high word, PZD29 low word
bit12-	PZD29+30 output	0: PZD29 low word, PZD30 high word 1: PZD29 high word, PZD30 low word
bit13-	PZD30+31 output	0: PZD30 low word, PZD31 high word 1: PZD30 high word, PZD31 low word
bit14-	PZD31+32 output	0: PZD31 low word, PZD32 high word 1: PZD31 high word, PZD32 low word
bit15-	Reserved	0: Inhibited 1: Enabled

Description：

Defines the sequence of high/low bytes of expansion PZD double word output of adapter B.

Note:

This parameter is the same as n36-01 (Selection of high/low word of PZD double word output of adapter B).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-49	PZD17+18 output source	7760	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD17+18 of adapter B. Note: PZD17+18 output data of adapter A (after base value conversion) (n36-79) = PZD17+18 output source (n36-49) x Communication base value of PZD17+18 output (n36-64)/(4096 x 65536). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-50	PZD18+19 output source	7761	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD18+19 of adapter B. Note: PZD18+19 output data of adapter B (after base value conversion) (n36-80) = PZD18+19 output source (n36-50) x Communication base value of PZD18+19 output (n36-65)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-51	PZD19+20 output source	7762	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：0 Others：K connector
	Description： Defines the data output source of PZD19+20 of adapter B. Note: PZD19+20 output data of adapter A (after base value conversion) (n34-81) = PZD19+20 output source (n34-51) x PZD19+20 output communication base value (n34-66)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-52	PZD20+21 output source	7763	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the data output source of PZD20+21 of adapter B. Note: PZD20+21 output data of adapter A (after base value conversion) (n34-82) = PZD20+21 output source (n34-52) x PZD20+21 output communication base value (n34-67)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-53	PZD21+22 output source	7764	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the data output source of PZD21+22 of adapter B. Note: PZD21+22 output data of adapter A (after base value conversion) (n34-83) = PZD21+22 output source (n34-53) x PZD21+22								

	output communication base value (n34-68)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-54	PZD22+23 output source	7765	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD22+23 of adapter B. Note: PZD22+23 output data of adapter A (after base value conversion) (n34-84) = PZD22+23 output source (n34-54) x PZD22+23 output communication base value (n34-69)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-55	PZD23+24 output source	7766	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD23+24 of adapter B. Note: PZD23+24 output data of adapter A (after base value conversion) (n34-85) = PZD23+24 output source (n34-55) x PZD23+24 output communication base value (n34-70)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-56	PZD24+25 output source	7767	Refer to "Value"	0	Unsigned 16 bit	1	Real time	General user	Effective in real

							changes		time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD24+25 of adapter B. Note: PZD24+25 output data of adapter A (after base value conversion) (n34-86) = PZD24+25 output source (n34-56) x PZD24+25 output communication base value (n34-71)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-57	PZD25+26 output source	7768	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD25+26 of adapter B. Note: PZD25+26 output data of adapter A (after base value conversion) (n34-87) = PZD25+26 output source (n34-57) x PZD25+26 output communication base value (n34-72)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-58	PZD26+27 output source	7769	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD26+27 of adapter B.								

	Note: PZD26+27 output data of adapter A (after base value conversion) (n34-88) = PZD26+27 output source (n34-58) x PZD26+27 output communication base value (n34-73)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-59	PZD27+28 output source	7770	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD27+28 of adapter B. Note: PZD27+28 output data of adapter A (after base value conversion) (n34-89) = PZD27+28 output source (n34-59) x PZD27+28 output communication base value (n34-74)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-60	PZD28+29 output source	7771	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the data output source of PZD28+29 of adapter B. Note: PZD28+29 output data of adapter A (after base value conversion) (n34-90) = PZD28+29 output source (n34-60) x PZD28+29 output communication base value (n34-75)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n36-61	PZD29+30 output source	7772	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the data output source of PZD29+30 of adapter B. Note: PZD29+30 output data of adapter A (after base value conversion) (n34-91) = PZD29+30 output source (n34-61) x PZD29+30 output communication base value (n34-76)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-62	PZD30+31 output source	7773	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the data output source of PZD30+31 of adapter B. Value description: 0: Invalid address Others: K connector Note: PZD30+31 output data of adapter A (after base value conversion) (n34-92) = PZD30+31 output source (n34-62) x PZD30+31 output communication base value (n34-77)/(4096 x 65535). 选项说明: 0: 0 Others: K connector 补充说明: 经过基值转换后的输出扩展双字过程数据适配器 B.PZD17+18 输出数据(基值处理后)（n36-79） = PZD17+18 输出来源（n36-49） x PZD17+18 输出通讯基值（n36-64） / (4096x 65PZD17+18 输出通讯基值（535)。当）为 0 时，不进行基值转换。"								

	输出扩展双字过程数据适配器 B.PZD17+18 输出数据(基值处理后)（n36-79） = PZD17+18 输出来源（n36-49） x PZD17+18 输出通讯基值（n36-64） / (4096x 65PZD17+18 输出通讯基值（535)。 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-63	PZD31+32 output source	7774	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the data output source of PZD31+32 of adapter B. Note: PZD31+32 output data of adapter A (after base value conversion) (n34-93) = PZD31+32 output source (n34-63) x PZD31+32 output communication base value (n34-78)/(4096 x 65535). When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-64	Communication base value of PZD17+18 output	7775	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description： Defines the communication base value of PZD17+18 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-65	Communication base value of PZD18+19 output	7777	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description： Defines the communication base value of PZD18+19 data output of adapter B.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-	Communication base value of	7779	0-	0	Unsigned	1	Real time	General	Effective in real

66	PZD19+20 output		2147483647		32		changes	user	time
	Description: Defines the communication base value of PZD19+20 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-67	Communication base value of PZD20+21 output	7781	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD20+21 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-68	Communication base value of PZD21+22 output	7783	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD21+22 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-69	Communication base value of PZD22+23 output	7785	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD22+23 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-70	Communication base value of PZD23+24 output	7787	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD23+24 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-	Communication	7789	0-	0	Unsigned	1	Real	General	Effective

71	base value of PZD24+25 output		2147483647		32		time changes	user	in real time
	Description: Defines the communication base value of PZD24+25 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-72	Communication base value of PZD25+26 output	7791	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD25+26 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-73	Communication base value of PZD26+27 output	7793	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD26+27 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-74	Communication base value of PZD27+28 output	7795	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD27+28 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-75	Communication base value of PZD28+29 output	7797	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD28+29 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n36-76	Communication base value of PZD29+30 output	7799	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD29+30 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-77	Communication base value of PZD30+31 output	7801	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD30+31 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-78	Communication base value of PZD31+32 output	7803	0-2147483647	0	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of PZD31+32 data output of adapter B.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-79	PZD17+18 data output (after base value conversion) of adapter B	37316	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD17+18 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-80	PZD18+19 data input (after base value conversion) of adapter B	37318	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD18+19 data output of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-81	PZD19+20 data input (after base value conversion) of adapter B	37320	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD19+20 data output of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-82	PZD20+21 data input (after base value conversion) of adapter B	37322	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD20+21 data output of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-83	PZD21+22 data input (after base value conversion) of adapter B	37324	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD21+22 data output of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-84	PZD22+23 data input (after base value conversion) of adapter B	37326	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD22+23 data output of adapter B after base value conversion.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-	PZD23+24 data	37328	-2147483648	0	Signed 32	1	Cannot	General	Effective

85	input (after base value conversion) of adapter B		8 to +2147483647				be changed	user	in real time
	Description: Displays PZD23+24 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-86	PZD24+25 data input (after base value conversion) of adapter B	37330	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD24+25 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-87	PZD25+26 data input (after base value conversion) of adapter B	37332	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD25+26 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-88	PZD26+27 data input (after base value conversion) of adapter B	37334	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD26+27 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-89	PZD27+28 data input (after base value conversion) of adapter B	37336	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	Description: Displays PZD27+28 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-90	PZD28+29 data input (after base value conversion) of adapter A	37338	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD28+29 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-91	PZD29+30 data input (after base value conversion) of adapter B	37340	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD29+30 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-92	PZD30+31 data input (after base value conversion) of adapter B	37342	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD30+31 data output of adapter B after base value conversion.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n36-93	PZD31+32 data input (after base value conversion) of adapter B	37344	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays PZD31+32 data output of adapter B after base value conversion.								

n37 Expansion process data of fieldbus adapter A

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-00	Expansion process data of fieldbus adapter A	7805	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled								
	Description: Defines whether the expansion process data of bus adapter A is enabled. Value description: 0: Inhibited - The bus adapter A prohibits the expansion of process data. 1: Enabled - The bus adapter A supports expansion of process data.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-01	Display of expansion process data of bus adapter A	37494	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Displays the expansion process data state of bus adapter A.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-05	Process data output 17	7312	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description:								

	Defines process data output 17. Note: Displayed data of process data output 17 after base value conversion (n37-53) = Process data output 17 (n37-05) x Communication base value of process data output 17 (n37-21)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-06	Process data output 18	7313	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 18. Note: Displayed data of process data output 18 after base value conversion (n37-54) = Process data output 18 (n37-06) x Communication base value of process data output 18 (n37-22)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-07	Process data output 19	7314	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 19. Note: Displayed data of process data output 19 after base value conversion (n37-55) = Process data output 19 (n37-07) x Communication base value of process data output 19 (n37-23)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n37-08	Process data output 20	7315	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 20. Note: Displayed data of process data output 20 after base value conversion (n37-56) = Process data output 20 (n37-08) x Communication base value of process data output 20 (n37-24)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-09	Process data output 21	7316	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 21. Note: Displayed data of process data output 21 after base value conversion (n37-57) = Process data output 21 (n37-09) x Communication base value of process data output 21 (n37-25)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-10	Process data output 22	7317	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector
	Description： Defines process data output 22. Note: Displayed data of process data output 22 after base value conversion (n37-58) = Process data output 22 (n37-10) x Communication base value of process data output 22 (n37-26)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-11	Process data output 23	7318	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 23. Note: Displayed data of process data output 23 after base value conversion (n37-59) = Process data output 23 (n37-11) x Communication base value of process data output 23 (n37-27)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-12	Process data output 24	7319	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 24. Note: Displayed data of process data output 24 after base value conversion (n37-60) = Process data output 24 (n37-12) x Communication base value of process data output 24 (n37-28)/4096 When the communication value of PZD17+18 data								

	output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-13	Process data output 25	7320	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 25. Note: Displayed data of process data output 25 after base value conversion (n37-61) = Process data output 25 (n37-13) x Communication base value of process data output 25 (n37-29)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-14	Process data output 26	7321	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 26. Note: Displayed data of process data output 26 after base value conversion (n37-62) = Process data output 26 (n37-14) x Communication base value of process data output 26 (n37-30)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-15	Process data output 27	7322	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others：K connector
	Description： Defines process data output 27. Note: Displayed data of process data output 27 after base value conversion (n37-63) = Process data output 27 (n37-15) x Communication base value of process data output 27 (n37-31)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-16	Process data output 28	7323	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines process data output 28. Note: Displayed data of process data output 28 after base value conversion (n37-64) = Process data output 28 (n37-16) x Communication base value of process data output 28 (n37-32)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-17	Process data output 29	7324	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines process data output 29. Note:								

	Displayed data of process data output 29 after base value conversion (n37-65) = Process data output 29 (n37-17) x Communication base value of process data output 29 (n37-33)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-18	Process data output 30	7325	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 30. Note: Displayed data of process data output 30 after base value conversion (n37-66) = Process data output 30 (n37-18) x Communication base value of process data output 30 (n37-34)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-19	Process data output 31	7326	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 31. Note: Displayed data of process data output 31 after base value conversion (n37-67) = Process data output 31 (n37-19) x Communication base value of process data output 31 (n37-35)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-	Process data output	7327	Refer to	0	Unsigned	1	Real time	General	Effective in real

20	32		"Value"		16 bit		changes	user	time
	Value： 0：0 Others：K connector								
	Description： Defines process data output 32. Note: Displayed data of process data output 32 after base value conversion (n37-68) = Process data output 32 (n37-20) x Communication base value of process data output 32 (n37-36)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-21	Communication base value of process data output 17	7344	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines communication base value of process data output 1. Note: Displayed data of process data output 17 after base value conversion (n37-53) = Process data output 17 (n37-05) x Communication base value of process data output 17 (n37-21)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-22	Communication base value of process data output 18	7345	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines communication base value of process data output 18. Note: Displayed data of process data output 18 after base value conversion (n37-54) = Process data output 18 (n37-06) x Communication base value of process data output 18 (n37-22)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n37-23	Communication base value of process data output 19	7346	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 19. Note: Displayed data of process data output 19 after base value conversion (n37-55) = Process data output 19 (n37-07) x Communication base value of process data output 19 (n37-23)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-24	Communication base value of process data output 20	7347	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 20. Note: Displayed data of process data output 20 after base value conversion (n37-56) = Process data output 20 (n37-08) x Communication base value of process data output 20 (n37-24)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-25	Communication base value of process data output 21	7348	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 21. Note: Displayed data of process data output 21 after base value conversion (n37-57) = Process data output 21 (n37-09) x Communication base value of process data output 21 (n37-25)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-	Communication base value of process data	7349	0-65535	0	Unsigned	1	Real time	General	Effective in real

26	output 22				16 bit		changes	user	time
	Description: Defines communication base value of process data output 22. Note: Displayed data of process data output 22 after base value conversion (n37-58) = Process data output 22 (n37-10) x Communication base value of process data output 22 (n37-26)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-27	Communication base value of process data output 23	7350	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 23. Note: Displayed data of process data output 23 after base value conversion (n37-59) = Process data output 23 (n37-11) x Communication base value of process data output 23 (n37-27)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-28	Communication base value of process data output 24	7351	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 24. Note: Displayed data of process data output 24 after base value conversion (n37-60) = Process data output 24 (n37-12) x Communication base value of process data output 24 (n37-28)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-29	Communication base value of process data output 25	7352	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines communication base value of process data output 25. Note: Displayed data of process data output 25 after base value conversion (n37-61) = Process data output 25 (n37-13) x Communication base value of process data output 25 (n37-29)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-30	Communication base value of process data output 26	7353	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 26. Note: Displayed data of process data output 26 after base value conversion (n37-62) = Process data output 26 (n37-14) x Communication base value of process data output 26 (n37-30)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-31	Communication base value of process data output 27	7354	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 27. Note: Displayed data of process data output 27 after base value conversion (n37-63) = Process data output 27 (n37-15) x Communication base value of process data output 27 (n37-31)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-32	Communication base value of process data output 28	7355	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 28.								

	Note: Displayed data of process data output 28 after base value conversion (n37-64) = Process data output 28 (n37-16) x Communication base value of process data output 28 (n37-32)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-33	Communication base value of process data output 29	7356	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 29. Note: Displayed data of process data output 29 after base value conversion (n37-65) = Process data output 29 (n37-17) x Communication base value of process data output 29 (n37-33)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-34	Communication base value of process data output 30	7357	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 30. Note: Displayed data of process data output 30 after base value conversion (n37-66) = Process data output 30 (n37-18) x Communication base value of process data output 30 (n37-34)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-35	Communication base value of process data output 31	7358	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 31. Note:								

	Displayed data of process data output 31 after base value conversion (n37-67) = Process data output 31 (n37-19) x Communication base value of process data output 31 (n37-35)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-36	Communication base value of process data output 32	7359	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 32. Note: Displayed data of process data output 32 after base value conversion (n37-68) = Process data output 32 (n37-20) x Communication base value of process data output 32 (n37-36)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-37	Communication base value of process data input 17	7328	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 17. Note: PZD17 process data input of bus adapter B (U25-00) after base value conversion = Displayed data of process data input 17 (n37-68) x Communication base value of process data input 17 (n37-37)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-38	Communication base value of process data input 18	7329	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 18. Note: PZD18 process data input of bus adapter B (U25-01) after base value conversion = Displayed data of process data input 18 (n37-69) x Communication base value of process data input 18 (n37-38)/4096 When the communication value of PZD17+18								

	data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-39	Communication base value of process data input 19	7330	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 19. Note: PZD19 process data input of bus adapter B (U25-02) after base value conversion = Displayed data of process data input 19 (n37-70) x Communication base value of process data input 19 (n37-39)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-40	Communication base value of process data input 20	7331	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 20. Note: PZD20 process data input of bus adapter B (U25-03) after base value conversion = Displayed data of process data input 20 (n37-71) x Communication base value of process data input 20 (n37-40)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-41	Communication base value of process data input 21	7332	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 21. Note: PZD21 process data input of bus adapter B (U25-04) after base value conversion = Displayed data of process data input 21 (n37-72) x Communication base value of process data input 21 (n37-41)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-42	Communication base value of process data input 22	7333	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 22. Note: PZD22 process data input of bus adapter B (U25-05) after base value conversion = Displayed data of process data input 22 (n37-73) x Communication base value of process data input 22 (n37-42)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-43	Communication base value of process data input 23	7334	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 23. Note: PZD23 process data input of bus adapter B (U25-06) after base value conversion = Displayed data of process data input 23 (n37-74) x Communication base value of process data input 23 (n37-43)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-44	Communication base value of process data input 24	7335	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 24. Note: PZD24 process data input of bus adapter B (U25-07) after base value conversion = Displayed data of process data input 24 (n37-75) x Communication base value of process data input 24 (n37-44)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n37-45	Communication base value of process data input 25	7336	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 25. Note: PZD25 process data input of bus adapter B (U25-08) after base value conversion = Displayed data of process data input 25 (n37-76) x Communication base value of process data input 25 (n37-45)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-46	Communication base value of process data input 26	7337	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 26. Note: PZD26 process data input of bus adapter B (U25-09) after base value conversion = Displayed data of process data input 26 (n37-77) x Communication base value of process data input 26 (n37-46)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-47	Communication base value of process data input 27	7338	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 27. Note: PZD27 process data input of bus adapter B (U25-10) after base value conversion = Displayed data of process data input 27 (n37-78) x Communication base value of process data input 27 (n37-47)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-	Communication base value of process data	7339	0-65535	0	Unsigned	1	Real time	General	Effective in real

48	input 28				16 bit		changes	user	time
	Description: Defines the communication base value of process data input 28. Note: PZD28 process data input of bus adapter B (U25-11) after base value conversion = Displayed data of process data input 28 (n37-79) x Communication base value of process data input 28 (n37-48)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-49	Communication base value of process data input 29	7340	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 29. Note: PZD29 process data input of bus adapter B (U25-12) after base value conversion = Displayed data of process data input 29 (n37-80) x Communication base value of process data input 29 (n37-49)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-50	Communication base value of process data input 30	7341	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 30. Note: PZD30 process data input of bus adapter B (U25-13) after base value conversion = Displayed data of process data input 30 (n37-81) x Communication base value of process data input 30 (n37-50)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-51	Communication base value of process data input 31	7342	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the communication base value of process data input 31. Note: PZD31 process data input of bus adapter B (U25-14) after base value conversion = Displayed data of process data input 31 (n37-82) x Communication base value of process data input 31 (n37-51)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-52	Communication base value of process data input 32	7343	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 32. Note: PZD32 process data input of bus adapter B (U25-15) after base value conversion = Displayed data of process data input 32 (n37-83) x Communication base value of process data input 32 (n37-52)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-53	Data display of process data output 17	37086	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 17 after base value conversion. Note: Displayed data of process data output 17 after base value conversion (n37-53) = Process data output 17 (n37-05) x Communication base value of process data output 17 (n37-21)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-54	Data display of process data output 18	37087	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 18 after base value conversion.								

	Note: Displayed data of process data output 18 after base value conversion (n37-54) = Process data output 18 (n37-06) x Communication base value of process data output 18 (n37-22)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-55	Data display of process data output 19	37088	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 19 after base value conversion. Note: Displayed data of process data output 19 after base value conversion (n37-55) = Process data output 19 (n37-07) x Communication base value of process data output 19 (n37-23)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-56	Data display of process data output 20	37089	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 20 after base value conversion. Note: Displayed data of process data output 20 after base value conversion (n37-56) = Process data output 20 (n37-08) x Communication base value of process data output 20 (n37-24)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-57	Data display of process data output 21	37090	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 21 after base value conversion. Note:								

	Displayed data of process data output 21 after base value conversion (n37-57) = Process data output 21 (n37-09) x Communication base value of process data output 21 (n37-25)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-58	Data display of process data output 22	37091	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 22 after base value conversion. Note: Displayed data of process data output 22 after base value conversion (n37-58) = Process data output 22 (n37-10) x Communication base value of process data output 22 (n37-26)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-59	Data display of process data output 23	37092	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 23 after base value conversion. Note: Displayed data of process data output 23 after base value conversion (n37-59) = Process data output 23 (n37-11) x Communication base value of process data output 23 (n37-27)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-60	Data display of process data output 24	37093	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 24 after base value conversion. Note: Displayed data of process data output 24 after base value conversion (n37-60) = Process data output 24 (n37-12) x Communication base value of process data output 24 (n37-28)/4096 When the communication value of PZD17+18 data								

	output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-61	Data display of process data output 25	37094	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 25 after base value conversion. Note: Displayed data of process data output 25 after base value conversion (n37-61) = Process data output 25 (n37-13) x Communication base value of process data output 25 (n37-29)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-62	Data display of process data output 26	37095	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 26 after base value conversion. Note: Displayed data of process data output 26 after base value conversion (n37-62) = Process data output 26 (n37-14) x Communication base value of process data output 26 (n37-30)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-63	Data display of process data output 27	37096	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 27 after base value conversion. Note: Displayed data of process data output 27 after base value conversion (n37-63) = Process data output 27 (n37-15) x Communication base value of process data output 27 (n37-31)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-64	Data display of process data output 28	37097	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 28 after base value conversion. Note: Displayed data of process data output 28 after base value conversion (n37-64) = Process data output 28 (n37-16) x Communication base value of process data output 28 (n37-32)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-65	Data display of process data output 29	37098	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 29 after base value conversion. Note: Displayed data of process data output 29 after base value conversion (n37-65) = Process data output 29 (n37-17) x Communication base value of process data output 29 (n37-33)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-66	Data display of process data output 30	37099	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 30 after base value conversion. Note: Displayed data of process data output 30 after base value conversion (n37-66) = Process data output 30 (n37-18) x Communication base value of process data output 30 (n37-34)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n37-67	Data display of process data output 31	37100	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 31 after base value conversion. Note: Displayed data of process data output 31 after base value conversion (n37-67) = Process data output 31 (n37-19) x Communication base value of process data output 31 (n37-35)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-68	Data display of process data output 32	37101	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 32 after base value conversion. Note: Displayed data of process data output 32 after base value conversion (n37-68) = Process data output 32 (n37-20) x Communication base value of process data output 32 (n37-36)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-69	Data display of process data input 17	37070	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 17. Note: After being converted with n37-37 (Communication base value of process data input 17), the data received can be monitored through U25-00 (PZD17 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-70	Data display of process data input 18	37071	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

							changed		time
	Description: Displays the original data of current process data input 18. Note: After being converted with n37-38 (Communication base value of process data input 18), the data received can be monitored through U25-01 (PZD18 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-71	Data display of process data input 19	37072	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 19. Note: After being converted with n37-39 (Communication base value of process data input 19), the data received can be monitored through U25-02 (PZD19 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-72	Data display of process data input 20	37073	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 20. Note: After being converted with n37-40 (Communication base value of process data input 20), the data received can be monitored through U25-03 (PZD20 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-73	Data display of process data input 21	37074	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 21.								

	Note: After being converted with n37-41 (Communication base value of process data input 21), the data received can be monitored through U25-04 (PZD21 of bus adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-74	Data display of process data input 22	37075	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 22. Note: After being converted with n37-42 (Communication base value of process data input 22), the data received can be monitored through U25-05 (PZD22 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-75	Data display of process data input 23	37076	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 23. Note: After being converted with n37-43 (Communication base value of process data input 23), the data received can be monitored through U25-06 (PZD23 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-76	Data display of process data input 24	37077	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 24. Note: After being converted with n37-44 (Communication base value of process data input 24), the data received can be monitored through U25-07 (PZD24 of bus adapter A).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n37-77	Data display of process data input 25	37078	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 25. Note: After being converted with n37-45 (Communication base value of process data input 25), the data received can be monitored through U25-08 (PZD25 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-78	Data display of process data input 26	37079	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 26. Note: After being converted with n37-46 (Communication base value of process data input 26), the data received can be monitored through U25-09 (PZD26 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-79	Data display of process data input 27	37080	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 27. Note: After being converted with n37-47 (Communication base value of process data input 27), the data received can be monitored through U25-10 (PZD27 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-80	Data display of process data input 28	37081	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the original data of current process data input 28. Note: After being converted with n37-48 (Communication base value of process data input 28), the data received can be monitored through U25-11 (PZD28 of bus adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-81	Data display of process data input 29	37082	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 29. Note: After being converted with n37-49 (Communication base value of process data input 29), the data received can be monitored through U25-12 (PZD29 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-82	Data display of process data input 30	37083	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 30. Note: After being converted with n37-50 (Communication base value of process data input 30), the data received can be monitored through U25-13 (PZD30 of bus adapter A).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-83	Data display of process data input 31	37084	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 31. Note: After being converted with n37-51 (Communication base value of process data input 31), the data received can be								

	monitored through U25-14 (PZD31 of bus adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-84	Data display of process data input 32	37085	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Description:
Displays the original data of current process data input 32.

Note:
After being converted with n37-52 (Communication base value of process data input 32), the data received can be monitored through U25-15 (PZD32 of bus adapter A).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-85	High/Low byte conversion switch for expansion process data output of adapter A	7360	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Process data output 17	0: Low byte before high byte 1: High byte before low byte
bit1	Process data output 18	0: Low byte before high byte 1: High byte before low byte
bit2	Process data output 19	0: Low byte before high byte 1: High byte before low byte
bit3	Process data output 20	0: Low byte before high byte 1: High byte before low byte
bit4	Process data output 21	0: Low byte before high byte 1: High byte before low byte
bit5	Process data output 22	0: Low byte before high byte 1: High byte before low byte
bit6	Process data output 23	0: Low byte before high byte 1: High byte before low byte
bit7	Process data output 24	0: Low byte before high byte 1: High byte before low byte

bit8	Process data output 25	0: Low byte before high byte 1: High byte before low byte
bit9	Process data output 26	0: Low byte before high byte 1: High byte before low byte
Bit10	Process data output 27	0: Low byte before high byte 1: High byte before low byte
bit11	Process data output 28	0: Low byte before high byte 1: High byte before low byte
bit12	Process data output 29	0: Low byte before high byte 1: High byte before low byte
bit13	Process data output 30	0: Low byte before high byte 1: High byte before low byte
bit14	Process data output 31	0: Low byte before high byte 1: High byte before low byte
bit15	Process data output 32	0: Low byte before high byte 1: High byte before low byte

Description：

Defines whether to perform high/low byte conversion on the effective PZD data of expansion process data output of adapter A.

Note:

The PZD process data bit is 16 bits, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is outputted as PZD original data.

High/Low byte conversion switches of PZD1 to PZD16 process data output correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-86	High and low byte conversion switches for expansion process data input of adapter A	7361	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value：

Bit	Name	Value
bit0	Process data input 17	0: Low byte before high byte 1: High byte before low byte
bit1	Process data input 18	0: Low byte before high byte 1: High byte before low byte
bit2	Process data input 19	0: Low byte before high byte 1: High byte before low byte

bit3	Process data input 20	0: Low byte before high byte 1: High byte before low byte
bit4	Process data input 21	0: Low byte before high byte 1: High byte before low byte
bit5	Process data input 22	0: Low byte before high byte 1: High byte before low byte
bit6	Process data input 23	0: Low byte before high byte 1: High byte before low byte
bit7	Process data input 24	0: Low byte before high byte 1: High byte before low byte
bit8	Process data input 25	0: Low byte before high byte 1: High byte before low byte
bit9	Process data input 26	0: Low byte before high byte 1: High byte before low byte
bit10	Process data input 27	0: Low byte before high byte 1: High byte before low byte
bit11	Process data input 28	0: Low byte before high byte 1: High byte before low byte
bit12	Process data input 29	0: Low byte before high byte 1: High byte before low byte
bit13	Process data input 30	0: Low byte before high byte 1: High byte before low byte
bit14	Process data input 31	0: Low byte before high byte 1: High byte before low byte
bit15	Process data input 32	0: Low byte before high byte 1: High byte before low byte

Description：

Defines whether to perform high/low byte conversion on the effective PZD data of expansion process data input of adapter A.

Note:

The PZD process data bit is 16 bits, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is inputted as PZD original data.

High/Low byte conversion switches of PZD1 to PZD16 process data output correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n37-87	Effective PZD of expansion output of adapter A	37346	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value：

Bit	Name	Value
bit0-	PZD17 output (n37-05)	0: Invalid 1: Valid
bit1-	PZD18 output (n37-06)	0: Invalid 1: Valid
bit2-	PZD19 output (n37-07)	0: Invalid 1: Valid
bit3-	PZD20 output (n37-08)	0: Invalid 1: Valid
bit4-	PZD21 output (n37-09)	0: Invalid 1: Valid
bit5-	PZD22 output (n37-10)	0: Invalid 1: Valid
bit6-	PZD23 output (n37-11)	0: Invalid 1: Valid
bit7-	PZD24 output (n37-12)	0: Invalid 1: Valid
bit8-	PZD25 output (n37-13)	0: Invalid 1: Valid
bit9-	PZD26 output (n37-14)	0: Invalid 1: Valid
bit10-	PZD27 output (n37-15)	0: Invalid 1: Valid
bit11-	PZD28 output (n37-16)	0: Invalid 1: Valid
bit12-	PZD29 output (n37-17)	0: Invalid 1: Valid
bit13-	PZD30 output (n37-18)	0: Invalid 1: Valid
bit14-	PZD31 output (n37-19)	0: Valid 1: Active
bit15-	PZD32 output (n37-20)	0: Invalid 1: Valid

Description：

Displays the effective PZD data of the expansion output of current adapter A.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n37-88	Effective double word PZD of expansion output of adapter A	37347	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 output (n34-49)	0: Invalid 1: Valid
bit1-	PZD18+19 output (n34-50)	0: Invalid 1: Valid
bit2-	PZD19+20 output (n34-51)	0: Invalid 1: Valid
bit3-	PZD20+21 output (n34-52)	0: Invalid 1: Valid
bit4-	PZD21+22 output (n34-53)	0: Invalid 1: Valid
bit5-	PZD22+23 output (n34-54)	0: Invalid 1: Valid
bit6-	PZD23+24 output (n34-55)	0: Invalid 1: Valid
bit7-	PZD24+25 output (n34-56)	0: Invalid 1: Valid
bit8-	PZD25+26 output (n34-57)	0: Invalid 1: Valid
bit9-	PZD26+27 output (n34-58)	0: Invalid 1: Valid
bit10-	PZD27+28 output (n34-59)	0: Invalid 1: Valid
bit11-	PZD28+29 output (n34-60)	0: Invalid 1: Valid
bit12-	PZD29+30 output (n34-61)	0: Invalid 1: Valid
bit13-	PZD30+31 output (n34-62)	0: Invalid 1: Valid
bit14-	PZD31+32 output (n34-63)	0: Invalid 1: Valid
bit15-	Reserved	0: Invalid 1: Valid

Description:

Displays the output mode of expansion PZD double word of adapter A.

	Note: This parameter is the same as n34-47 (Expansion PZD double word output of adapter A). When using the bus adapter to send double-word connector data using the expansion double word process data, the 32-bit output data (n34-49 to n34-63) can be divided into two 16-bit data. The data (n34-79 to n34-93) is sent to the host controller after high/low byte conversion (n34-48) and base value conversion (n34-64 to n34-78). It can be monitored through n37-88 (Effective double word PZD of expansion output of adapter A). This function is only available in some communication cards.

n38 Expansion process data of fieldbus adapter B

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-00	Expansion process data of bus adapter B	7806	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled								
	Description: Defines whether the expansion process data of bus adapter B is enabled. Value description: 0: Inhibited - The bus adapter B prohibits the expansion of process data. 1: Enabled - The bus adapter B supports expansion of process data.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-01	Expansion process data status display of fieldbus adapter B	37495	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Displays the expansion process data status of bus adapter B.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n38-05	Process data output 17	7362	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 17. Note: Displayed data of process data output 17 after base value conversion (n38-53) = Process data output 17 (n38-05) x Communication base value of process data output 17 (n38-21)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-06	Process data output 18	7363	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 18. Note: Displayed data of process data output 18 after base value conversion (n38-54) = Process data output 18 (n38-06) x Communication base value of process data output 18 (n38-22)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-07	Process data output 19	7364	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： K connector
	Description： Defines process data output 19. Note: Displayed data of process data output 19 after base value conversion (n38-55) = Process data output 19 (n38-07) x Communication base value of process data output 19 (n38-23)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-08	Process data output 20	7365	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 20. Note: Displayed data of process data output 20 after base value conversion (n38-56) = Process data output 20 (n38-08) x Communication base value of process data output 20 (n38-24)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-09	Process data output 21	7366	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 21. Note: Displayed data of process data output 21 after base value conversion (n38-57) = Process data output 21 (n38-09) x Communication base value of process data output 21 (n38-25)/4096 When the communication value of PZD17+18 data								

	output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-10	Process data output 22	7367	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 22. Note: Displayed data of process data output 22 after base value conversion (n38-58) = Process data output 22 (n38-10) x Communication base value of process data output 22 (n38-26)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-11	Process data output 23	7368	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 23. Note: Displayed data of process data output 23 after base value conversion (n38-59) = Process data output 23 (n38-11) x Communication base value of process data output 23 (n38-27)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-12	Process data output 24	7369	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others： K connector
	Description： Defines process data output 24. Note: Displayed data of process data output 24 after base value conversion (n38-60) = Process data output 24 (n38-12) x Communication base value of process data output 24 (n38-28)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-13	Process data output 25	7370	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 25. Note: Displayed data of process data output 25 after base value conversion (n38-61) = Process data output 25 (n38-13) x Communication base value of process data output 25 (n38-29)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-14	Process data output 26	7371	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 26. Note:								

	Displayed data of process data output 26 after base value conversion (n38-62) = Process data output 26 (n38-14) x Communication base value of process data output 26 (n38-30)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-15	Process data output 27	7372	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 27. Note: Displayed data of process data output 27 after base value conversion (n38-63) = Process data output 27 (n38-15) x Communication base value of process data output 27 (n38-31)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-16	Process data output 28	7373	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines process data output 28. Note: Displayed data of process data output 28 after base value conversion (n38-64) = Process data output 28 (n38-16) x Communication base value of process data output 28 (n38-32)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-	Process data output	7374	Refer to	0	Unsigned	1	Real time	General	Effective in real

17	29		"Value"		16 bit		changes	user	time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 29. Note: Displayed data of process data output 29 after base value conversion (n38-65) = Process data output 29 (n38-17) x Communication base value of process data output 29 (n38-33)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-18	Process data output 30	7375	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 30. Note: Displayed data of process data output 30 after base value conversion (n38-66) = Process data output 30 (n38-18) x Communication base value of process data output 30 (n38-34)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-19	Process data output 31	7376	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： K connector								
	Description： Defines process data output 31.								

	Note: Displayed data of process data output 31 after base value conversion (n38-67) = Process data output 31 (n38-19) x Communication base value of process data output 31 (n38-35)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-20	Process data output 32	7377	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines process data output 32. Note: Displayed data of process data output 32 after base value conversion (n38-68) = Process data output 32 (n38-20) x Communication base value of process data output 32 (n38-36)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-21	Communication base value of process data output 17	7394	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines communication base value of process data output 17. Note: Displayed data of process data output 17 after base value conversion (n38-53) = Process data output 17 (n38-05) x Communication base value of process data output 17 (n38-21)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-22	Communication base value of process data output 18	7395	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines communication base value of process data output 18. Note: Displayed data of process data output 18 after base value conversion (n38-54) = Process data output 18 (n38-06) x Communication base value of process data output 18 (n38-22)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-23	Communication base value of process data output 19	7396	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 19. Note: Displayed data of process data output 19 after base value conversion (n38-55) = Process data output 19 (n38-07) x Communication base value of process data output 19 (n38-23)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-24	Communication base value of process data output 20	7397	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 20. Note: Displayed data of process data output 20 after base value conversion (n38-56) = Process data output 20 (n38-08) x Communication base value of process data output 20 (n38-24)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-25	Communication base value of process data output 21	7398	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 21.								

	Note: Displayed data of process data output 21 after base value conversion (n38-57) = Process data output 21 (n38-09) x Communication base value of process data output 21 (n38-25)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-26	Communication base value of process data output 22	7399	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 22. Note: Displayed data of process data output 22 after base value conversion (n38-58) = Process data output 22 (n38-10) x Communication base value of process data output 22 (n38-26)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-27	Communication base value of process data output 23	7400	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 23. Note: Displayed data of process data output 23 after base value conversion (n38-59) = Process data output 23 (n38-11) x Communication base value of process data output 23 (n38-27)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-28	Communication base value of process data output 24	7401	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 24. Note:								

	Displayed data of process data output 24 after base value conversion (n38-60) = Process data output 24 (n38-12) x Communication base value of process data output 24 (n38-28)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-29	Communication base value of process data output 25	7402	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 25. Note: Displayed data of process data output 25 after base value conversion (n38-61) = Process data output 25 (n38-13) x Communication base value of process data output 25 (n38-29)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-30	Communication base value of process data output 26	7403	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 26. Note: Displayed data of process data output 26 after base value conversion (n38-62) = Process data output 26 (n38-14) x Communication base value of process data output 26 (n38-30)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-31	Communication base value of process data output 27	7404	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 27. Note: Displayed data of process data output 27 after base value conversion (n38-63) = Process data output 27 (n38-15) x Communication base value of process data output 27 (n38-31)/4096 When the communication value of PZD17+18 data								

	output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-32	Communication base value of process data output 28	7405	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines communication base value of process data output 28.

Note:
Displayed data of process data output 28 after base value conversion (n38-64) = Process data output 28 (n38-16) x Communication base value of process data output 28 (n38-32)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-33	Communication base value of process data output 29	7406	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines communication base value of process data output 29.

Note:
Displayed data of process data output 29 after base value conversion (n38-65) = Process data output 29 (n38-17) x Communication base value of process data output 29 (n38-33)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-34	Communication base value of process data output 30	7407	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:
Defines communication base value of process data output 30.

Note:
Displayed data of process data output 30 after base value conversion (n38-66) = Process data output 30 (n38-18) x Communication base value of process data output 30 (n38-34)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-35	Communication base value of process data output 31	7408	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 31. Note: Displayed data of process data output 31 after base value conversion (n38-67) = Process data output 31 (n38-19) x Communication base value of process data output 31 (n38-35)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-36	Communication base value of process data output 32	7409	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines communication base value of process data output 32. Note: Displayed data of process data output 32 after base value conversion (n38-68) = Process data output 32 (n38-20) x Communication base value of process data output 32 (n38-36)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-37	Communication base value of process data input 17	7378	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 17. Note: PZD17 process data input of bus adapter B after base value conversion (U25-16) = Displayed data of process data input 17 (n38-68) x Communication base value of process data input 17 (n38-37)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n38-38	Communication base value of process data input 18	7379	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 18. Note: PZD18 process data input of bus adapter B after base value conversion (U25-17) = Displayed data of process data input 18 (n38-69) x Communication base value of process data input 18 (n38-38)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-39	Communication base value of process data input 19	7380	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 19. Note: PZD19 process data input of bus adapter B after base value conversion (U25-18) = Displayed data of process data input 19 (n38-70) x Communication base value of process data input 19 (n38-39)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-40	Communication base value of process data input 20	7381	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 20. Note: PZD20 process data input of bus adapter B after base value conversion (U25-19) = Displayed data of process data input 20 (n38-71) x Communication base value of process data input 20 (n38-40)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-	Communication base value of process data	7382	0-65535	0	Unsigned	1	Real time	General	Effective in real

41	input 21				16 bit		changes	user	time
	Description: Defines the communication base value of process data input 21. Note: PZD21 process data input of bus adapter B after base value conversion (U25-20) = Displayed data of process data input 21 (n38-72) x Communication base value of process data input 21 (n38-41)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-42	Communication base value of process data input 22	7383	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 22. Note: PZD22 process data input of bus adapter B after base value conversion (U25-21) = Displayed data of process data input 22 (n38-73) x Communication base value of process data input 22 (n38-42)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-43	Communication base value of process data input 23	7384	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 23. Note: PZD23 process data input of bus adapter B after base value conversion (U25-22) = Displayed data of process data input 23 (n38-74) x Communication base value of process data input 23 (n38-43)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-44	Communication base value of process data input 24	7385	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the communication base value of process data input 24. Note: PZD24 process data input of bus adapter B after base value conversion (U25-23) = Displayed data of process data input 24 (n38-75) x Communication base value of process data input 24 (n38-44)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-45	Communication base value of process data input 25	7386	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 25. Note: PZD25 process data input of bus adapter B after base value conversion (U25-24) = Displayed data of process data input 25 (n38-76) x Communication base value of process data input 25 (n38-45)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-46	Communication base value of process data input 26	7387	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 26. Note: PZD26 process data input of bus adapter B after base value conversion (U25-25) = Displayed data of process data input 26 (n38-77) x Communication base value of process data input 26 (n38-46)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-47	Communication base value of process data input 27	7388	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 27.								

	Note: PZD27 process data input of bus adapter B after base value conversion (U25-16) = Displayed data of process data input 27 (n38-78) x Communication base value of process data input 27 (n38-47)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-48	Communication base value of process data input 28	7389	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 28. Note: PZD28 process data input of bus adapter B after base value conversion (U25-27) = Displayed data of process data input 28 (n38-79) x Communication base value of process data input 28 (n38-48)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-49	Communication base value of process data input 29	7390	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 29. Note: PZD29 process data input of bus adapter B after base value conversion (U25-28) = Displayed data of process data input 29 (n38-80) x Communication base value of process data input 29 (n38-49)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-50	Communication base value of process data input 30	7391	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 30. Note:								

	PZD30 process data input of bus adapter B after base value conversion (U25-29) = Displayed data of process data input 30 (n38-81) x Communication base value of process data input 30 (n38-50)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-51	Communication base value of process data input 31	7392	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 31. Note: PZD31 process data input of bus adapter B after base value conversion (U25-30) = Displayed data of process data input 31 (n38-82) x Communication base value of process data input 31 (n38-51)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-52	Communication base value of process data input 32	7393	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the communication base value of process data input 32. Note: PZD32 process data input of bus adapter B after base value conversion (U25-31) = Displayed data of process data input 32 (n38-83) x Communication base value of process data input 32 (n38-52)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-53	Data display of process data output 17	37118	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 17 after base value conversion. Note: Displayed data of process data output 17 after base value conversion (n38-53) = Process data output 17 (n38-05) x Communication base value of process data output 17 (n38-21)/4096 When the communication value of PZD17+18 data								

	output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-54	Data display of process data output 18	37119	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 18 after base value conversion. Note: Displayed data of process data output 18 after base value conversion (n38-54) = Process data output 18 (n38-06) x Communication base value of process data output 18 (n38-22)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-55	Data display of process data output 19	37120	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 19 after base value conversion. Note: Displayed data of process data output 19 after base value conversion (n38-55) = Process data output 19 (n38-07) x Communication base value of process data output 19 (n38-23)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-56	Data display of process data output 20	37121	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 20 after base value conversion. Note: Displayed data of process data output 20 after base value conversion (n38-56) = Process data output 20 (n38-08) x Communication base value of process data output 20 (n38-24)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-57	Data display of process data output 21	37122	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 21 after base value conversion. Note: Displayed data of process data output 21 after base value conversion (n38-57) = Process data output 21 (n38-09) x Communication base value of process data output 21 (n38-25)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-58	Data display of process data output 22	37123	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 22 after base value conversion. Note: Displayed data of process data output 22 after base value conversion (n38-58) = Process data output 22 (n38-10) x Communication base value of process data output 22 (n38-26)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-59	Data display of process data output 23	37124	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 23 after base value conversion. Note: Displayed data of process data output 23 after base value conversion (n38-59) = Process data output 23 (n38-11) x Communication base value of process data output 23 (n38-27)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

n38-60	Data display of process data output 24	37125	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 24 after base value conversion. Note: Displayed data of process data output 24 after base value conversion (n38-60) = Process data output 24 (n38-12) x Communication base value of process data output 24 (n38-28)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-61	Data display of process data output 25	37126	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 25 after base value conversion. Note: Displayed data of process data output 25 after base value conversion (n38-61) = Process data output 25 (n38-13) x Communication base value of process data output 25 (n38-29)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-62	Data display of process data output 26	37127	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 26 after base value conversion. Note: Displayed data of process data output 26 after base value conversion (n38-62) = Process data output 26 (n38-14) x Communication base value of process data output 26 (n38-30)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-	Data display of process data output	37128	0x0-	0x0	Unsigned	1	Cannot be	General	Effective in real

63	27		0xFFFF		16 bit		changed	user	time
	Description: Displays the process data output 27 after base value conversion. Note: Displayed data of process data output 27 after base value conversion (n38-63) = Process data output 27 (n38-15) x Communication base value of process data output 27 (n38-31)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-64	Data display of process data output 28	37129	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 28 after base value conversion. Note: Displayed data of process data output 28 after base value conversion (n38-64) = Process data output 28 (n38-16) x Communication base value of process data output 28 (n38-32)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-65	Data display of process data output 29	37130	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 29 after base value conversion. Note: Displayed data of process data output 29 after base value conversion (n38-65) = Process data output 29 (n38-17) x Communication base value of process data output 29 (n38-33)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-66	Data display of process data output 30	37131	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Description: Displays the process data output 30 after base value conversion. Note: Displayed data of process data output 30 after base value conversion (n38-66) = Process data output 30 (n38-18) x Communication base value of process data output 30 (n38-34)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-67	Data display of process data output 31	37132	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 31 after base value conversion. Note: Displayed data of process data output 31 after base value conversion (n38-67) = Process data output 31 (n38-19) x Communication base value of process data output 31 (n38-35)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-68	Data display of process data output 32	37133	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the process data output 32 after base value conversion. Note: Displayed data of process data output 32 after base value conversion (n38-68) = Process data output 32 (n38-20) x Communication base value of process data output 32 (n38-36)/4096 When the communication value of PZD17+18 data output is 0, base value conversion is not performed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-69	Data display of process data input 17	37102	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 17.								

	Note: After being converted with n38-37 (Communication base value of process data input 17), the data received can be monitored through U25-16 (PZD17 of bus adapter B).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-70	Data display of process data input 18	37103	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 18. Note: After being converted with n38-38 (Communication base value of process data input 18), the data received can be monitored through U25-17 (PZD18 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-71	Data display of process data input 19	37104	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 19. Note: After being converted with n38-39 (Communication base value of process data input 19), the data received can be monitored through U25-18 (PZD19 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-72	Data display of process data input 20	37105	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 20. Note: After being converted with n38-40 (Communication base value of process data input 20), the data received can be monitored through U25-19 (PZD20 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-73	Data display of process data input 21	37106	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 21. Note: After being converted with n38-41 (Communication base value of process data input 21), the data received can be monitored through U25-20 (PZD21 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-74	Data display of process data input 22	37107	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 22. Note: After being converted with n38-42 (Communication base value of process data input 22), the data received can be monitored through U25-21 (PZD22 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-75	Data display of process data input 23	37108	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 23. Note: After being converted with n38-43 (Communication base value of process data input 23), the data received can be monitored through U25-22 (PZD23 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-76	Data display of process data input 24	37109	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

							changed		time
	Description: Displays the original data of current process data input 24. Note: After being converted with n38-44 (Communication base value of process data input 24), the data received can be monitored through U25-23 (PZD24 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-77	Data display of process data input 25	37110	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 25. Note: After being converted with n38-45 (Communication base value of process data input 25), the data received can be monitored through U25-24 (PZD25 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-78	Data display of process data input 26	37111	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 26. Note: After being converted with n38-46 (Communication base value of process data input 26), the data received can be monitored through U25-25 (PZD26 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-79	Data display of process data input 27	37112	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 27.								

	Note: After being converted with n38-47 (Communication base value of process data input 27), the data received can be monitored through U25-26 (PZD27 of bus adapter B).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-80	Data display of process data input 28	37113	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 28. Note: After being converted with n38-48 (Communication base value of process data input 28), the data received can be monitored through U25-27 (PZD28 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-81	Data display of process data input 29	37114	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 29. Note: After being converted with n38-49 (Communication base value of process data input 29), the data received can be monitored through U25-28 (PZD29 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-82	Data display of process data input 30	37115	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 30. Note: After being converted with n38-50 (Communication base value of process data input 30), the data received can be monitored through U25-29 (PZD30 of bus adapter B).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
n38-83	Data display of process data input 31	37116	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 31. Note: After being converted with n38-51 (Communication base value of process data input 31), the data received can be monitored through U25-30 (PZD31 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-84	Data display of process data input 32	37117	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the original data of current process data input 32. Note: After being converted with n38-52 (Communication base value of process data input 32), the data received can be monitored through U25-31 (PZD32 of bus adapter B).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-85	High/Low byte conversion switch for expansion process data output of adapter B	7410	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Process data output 17	0: Low byte before high byte 1: High byte before low byte
bit1	Process data output 18	0: Low byte before high byte 1: High byte before low byte
bit2	Process data output 19	0: Low byte before high byte 1: High byte before low byte

bit3	Process data output 20	0: Low byte before high byte 1: High byte before low byte
bit4	Process data output 21	0: Low byte before high byte 1: High byte before low byte
bit5	Process data output 22	0: Low byte before high byte 1: High byte before low byte
bit6	Process data output 23	0: Low byte before high byte 1: High byte before low byte
bit7	Process data output 24	0: Low byte before high byte 1: High byte before low byte
bit8	Process data output 25	0: Low byte before high byte 1: High byte before low byte
bit9	Process data output 26	0: Low byte before high byte 1: High byte before low byte
Bit10	Process data output 27	0: Low byte before high byte 1: High byte before low byte
bit11	Process data output 28	0: Low byte before high byte 1: High byte before low byte
bit12	Process data output 29	0: Low byte before high byte 1: High byte before low byte
bit13	Process data output 30	0: Low byte before high byte 1: High byte before low byte
bit14	Process data output 31	0: Low byte before high byte 1: High byte before low byte
bit15	Process data output 32	0: Low byte before high byte 1: High byte before low byte

Description：

Defines whether to perform high/low byte conversion on the effective PZD data of expansion process data output of adapter A.

Note:

The PZD process data bit is 16 bits, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is outputted as PZD original data.

High/Low byte conversion switches of PZD1 to PZD16 process data output correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-86	High/Low byte conversion switch for expansion process	7411	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	data input of adapter B								

Value:

Bit	Name	Value
bit0	Process data input 17	0: Low byte before high byte 1: High byte before low byte
bit1	Process data input 18	0: Low byte before high byte 1: High byte before low byte
bit2	Process data input 19	0: Low byte before high byte 1: High byte before low byte
bit3	Process data input 20	0: Low byte before high byte 1: High byte before low byte
bit4	Process data input 21	0: Low byte before high byte 1: High byte before low byte
bit5	Process data input 22	0: Low byte before high byte 1: High byte before low byte
bit6	Process data input 23	0: Low byte before high byte 1: High byte before low byte
bit7	Process data input 24	0: Low byte before high byte 1: High byte before low byte
bit8	Process data input 25	0: Low byte before high byte 1: High byte before low byte
bit9	Process data input 26	0: Low byte before high byte 1: High byte before low byte
bit10	Process data input 27	0: Low byte before high byte 1: High byte before low byte
bit11	Process data input 28	0: Low byte before high byte 1: High byte before low byte
bit12	Process data input 29	0: Low byte before high byte 1: High byte before low byte
bit13	Process data input 30	0: Low byte before high byte 1: High byte before low byte
bit14	Process data input 31	0: Low byte before high byte 1: High byte before low byte
bit15	Process data input 32	0: Low byte before high byte 1: High byte before low byte

Description:

Defines whether to perform high/low byte conversion on the effective PZD data of expansion process data input of adapter A.

Note:
The PZD process data bit is 16 bits, which can be divided into high 8 bits and low 8 bits. After high/low byte conversion, the data is combined to form a 16-bit data, which is inputted as PZD original data.
High/Low byte conversion switches of PZD1 to PZD16 process data output correspond to bit0 to bit15 respectively.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-87	Effective PZD of expansion output of adapter B	37348	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17 output (n38-05)	0: Invalid 1: Valid
bit1-	PZD18 output (n38-06)	0: Invalid 1: Valid
bit2-	PZD19 output (n38-07)	0: Invalid 1: Valid
bit3-	PZD20 output (n38-08)	0: Invalid 1: Valid
bit4-	PZD21 output (n38-09)	0: Invalid 1: Valid
bit5-	PZD22 output (n38-10)	0: Invalid 1: Valid
bit6-	PZD23 output (n38-11)	0: Invalid 1: Valid
bit7-	PZD24 output (n38-12)	0: Invalid 1: Valid
bit8-	PZD25 output (n38-13)	0: Invalid 1: Valid
bit9-	PZD26 output (n38-14)	0: Invalid 1: Valid
bit10-	PZD27 output (n38-15)	0: Invalid 1: Valid
bit11-	PZD28 output (n38-16)	0: Invalid 1: Valid
bit12-	PZD29 output (n38-17)	0: Invalid 1: Valid

bit13-	PZD30 output (n38-18)	0: Invalid 1: Valid	
bit14-	PZD31 output (n38-19)	0: Valid 1: Active	
bit15-	PZD32 output (n38-20)	0: Invalid 1: Valid	

Description:

Displays the effective PZD data of the expansion output of current adapter B.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n38-88	Effective double word PZD of expansion output of adapter B	37349	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	PZD17+18 output (n36-49)	0: Invalid 1: Valid
bit1-	PZD18+19 output (n36-50)	0: Invalid 1: Valid
bit2-	PZD19+20 output (n36-51)	0: Invalid 1: Valid
bit3-	PZD20+21 output (n36-52)	0: Invalid 1: Valid
bit4-	PZD21+22 output (n36-53)	0: Invalid 1: Valid
bit5-	PZD22+23 output (n36-54)	0: Invalid 1: Valid
bit6-	PZD23+24 output (n36-55)	0: Invalid 1: Valid
bit7-	PZD24+25 output (n36-56)	0: Invalid 1: Valid
bit8-	PZD25+26 output (n36-57)	0: Invalid 1: Valid
bit9-	PZD26+27 output (n36-58)	0: Invalid 1: Valid
bit10-	PZD27+28 output (n36-59)	0: Invalid 1: Valid

bit11-	PZD28+29 output (n36-60)	0: Invalid 1: Valid	
bit12-	PZD29+30 output (n36-61)	0: Invalid 1: Valid	
bit13-	PZD30+31 output (n36-62)	0: Invalid 1: Valid	
bit14-	PZD31+32 output (n36-63)	0: Invalid 1: Valid	
bit15-	Reserved	0: Invalid 1: Valid	

Description:

Displays the output mode of expansion PZD double word of adapter B.

Note:

When using the bus adapter to send double-word connector data using the expansion double word process data, the 32-bit output data (n36-49 to n36-63) can be divided into two 16-bit data. The data (n36-79 to n36-93) is sent to the host controller after high/low byte conversion (n36-48) and base value conversion (n36-64 to n36-78).

It can be monitored through n38-88 (Effective double word PZD of expansion output of adapter A). This function is only available in some communication cards.

n41 EtherNet/IP module

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-00	Expansion slot selection	7306	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Expansion slot 1_1 2: Expansion slot 1_2 3: Expansion slot 1_3 4: Expansion slot 2_1 5: Expansion slot 2_2 6: Expansion slot 2_3 7: Expansion slot 3_1								
	Description: Defines the expansion slot where the EtherNet/IP module is located.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-01	Module online state	36807	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Offline								

	1：Online
	Description： Displays the current EtherNet communication module status.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-02	DHCP function selection	7287	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Disabled 1：Enabled								
	Description： Used to enable dynamic IP of DHCP. Note: This parameter is used to set the DHCP function of the EtherNet/IP expansion card. After the DHCP function is enabled, the following configured IP addresses are invalid.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-03	IP address 1	7288	1-254	192	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the IP address of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-04	IP address 2	7289	0-254	168	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the IP address of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-05	IP address 3	7290	0-254	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the IP address of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-06	IP address 4	7291	0-253	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the IP address of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-07	Subnet mask address 1	7292	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the subnet mask of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-08	Subnet mask address 2	7293	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the subnet mask of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-09	Subnet mask address 3	7294	0-255	255	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the subnet mask of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-10	Subnet mask address 4	7295	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the subnet mask of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-11	Gateway address 1	7296	1-254	192	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the gateway address of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-12	Gateway address 2	7297	0-254	168	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the gateway address of the EtherNet/IP expansion card.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-13	Gateway address 3	7298	0-254	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the gateway address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-14	Gateway address 4	7299	0-254	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the gateway address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-15	MAC address 1	7300	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the MAC address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-16	MAC address 2	7301	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the MAC address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-17	MAC address 3	7302	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the MAC address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-18	MAC address 4	7303	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the MAC address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-19	MAC address 5	7304	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the MAC address of the EtherNet/IP expansion card.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
n41-20	MAC address 6	7305	0-255	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the MAC address of the EtherNet/IP expansion card.

o0 Process setting parameter group 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-00	Process setting word parameter 1	4721	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 1. Note: It can be monitored through U19-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-01	Process setting word parameter 2	4725	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 2. Note: It can be monitored through U19-68.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-02	Process setting word parameter 3	4729	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 3. Note: It can be monitored through U19-69.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-03	Process setting word parameter 4	4733	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the process setting word parameter 4. Note: It can be monitored through U19-70.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-04	Process setting word parameter 5	4737	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 5. Note: It can be monitored through U19-71.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-05	Process setting word parameter 6	4741	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 6. Note: It can be monitored through U19-72.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-06	Process setting word parameter 7	4745	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 7. Note: It can be monitored through U19-73.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-07	Process setting word parameter 8	4749	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 8.								

	Note: It can be monitored through U19-74.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-08	Process setting word parameter 9	4753	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 9. Note: It can be monitored through U19-75.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-09	Process setting word parameter 10	4757	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 10. Note: It can be monitored through U19-76.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-10	Process setting word parameter 11	4761	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 11. Note: It can be monitored through U19-77.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-11	Process setting word parameter 12	4765	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 12. Note: It can be monitored through U19-78.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-12	Process setting word parameter 13	4769	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 13. Note: It can be monitored through U19-79.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-13	Process setting word parameter 14	4773	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 14. Note: It can be monitored through U19-80.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-14	Process setting bit parameter 1	4777	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 1. Note: It can be monitored through U11-64.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-15	Process setting bit parameter 2	4781	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 2.								

	Note: It can be monitored through U11-65.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-16	Process setting bit parameter 3	4785	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 3. Note: It can be monitored through U11-66.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-17	Process setting bit parameter 4	4789	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 4. Note: It can be monitored through U11-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-18	Process setting bit parameter 5	4793	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 5. Note: It can be monitored through U11-68.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o0-19	Process setting	4797	Refer to	0	Unsigned	1	Real time	General	Effective in

	bit parameter 6		"Value"		16 bit		changes	user	real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 6. Note: It can be monitored through U11-69.								

o1 Process controller parameter group 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-00	Process controller enable	4926	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Used to enable the process controller. Note: Set the execution sequence of the process controller through P9-24. You can enable all the four groups of process controllers by enabling any one of o1-00, o3-00, o5-00, and o7-00.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-01	Process controller type	4899	Refer to "Value"	11	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: Bit / Name / Value Ones- / Integral control / 0: Integral control invalid 1: Integral control valid								

Tens-	Proportional control	0: Proportional control invalid 1: Proportional control valid	
Hundreds-	Derivative control	0: Improving derivative control 1: Conventional derivative control	
Thousands-	Calculation direction	0: Forward calculation 1: Reverse calculation	

Description:

Defines the process controller type.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-02	Process controller reference 1	4919	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: 0

Others: K connector

Description:

Defines the process controller reference value 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-03	Process controller reference 2	4920	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: 0

Others: K connector

Description:

Defines the process controller reference value 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-04	Process controller reference 3	4921	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: 0

	Others： K connector
	Description： Defines the process controller reference value 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-05	Process controller reference 4	4922	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines the process controller reference value 4. Value description: 0: 0 Others: K connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-06	Enabling additional reference of process controller	4923	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Inhibited 1： Enabled 2： DI1 3： DI2 4： DI3 5： DI4 6： DI5 7： DI6 8： DIL 9： HDI1 10： HDI2 Others： B connector								
	Description： Defines whether to enable additional reference of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-07	Additional reference of process controller	4851	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others：K connector
	Description： Defines the additional reference of the process controller. Note: The sum of process controller references 1 to 4 and additional reference of process controller can be monitored through U19-84.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-08	Filter time reference of process controller	4855	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the filter time reference of process controller. Note: The filtered reference value can be monitored through U19-85 (Filtered reference value of process controller module).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-09	Process controller feedback value 1	4915	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the process controller feedback value 1. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-10	Process controller	4916	Refer to	0	Unsigned	1	Real time	General	Effective in real

	feedback value 2		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 2. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-11	Process controller feedback value 3	4917	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 3. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-12	Process controller feedback value 4	4918	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 4. Note:								

	You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-13	Feedback filter time of process controller	4839	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the feedback filter time of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-14	Process controller Td	4843	0-100	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the process controller Td.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-15	Unit of process controller Td	4847	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: ms 1: s								
	Description: Defines the unit of process controller Td. Note: You can view the derivative component of the process controller by monitoring the derivative component of the custom process controller module (U19-83).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-16	Process controller softening function	4925	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Inhibited 4: DI3 8: DIL 1: Enabled 5: DI4 9: HDI1 2: DI1 6: DI5 10: HDI2 3: DI2 7: DI6 Others: B connector
	Description: Defines whether to enable the softening function of the process controller. Note: The softening function is implemented by introducing negative feedback through o1-16 to o1-19.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-17	Process controller softening coefficient	4887	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the softening coefficient of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-18	Positive limit of softening function of process controller	4891	0-300	100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positive limit of softening function of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-19	Negative limit of softening function of process controller	4895	-300 to 0	-100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the negative limit of softening function of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o1-20	Kp reference of process controller	4859	0.00-125.00	3.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the Kp of the process controller. Value description: The Kp auto-tuning function is implemented by setting o1-20 to o1-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-21	Source of adaptive Kp of process controller	4924	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-22	Minimum input value of adaptive Kp of process controller	4863	0-200	0	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of adaptive Kp of the process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-23	Maximum input value of adaptive Kp of process controller	4867	0-200	100	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of adaptive Kp of process controller.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
o1-24	Minimum output value of adaptive Kp of process controller	4871	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of adaptive Kp of process controller. Note: You can monitor the proportional component of the process controller through the proportional component of the custom process controller module (U19-88).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-25	Maximum output value of adaptive Kp of process controller	4875	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of adaptive Kp of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-26	Process controller Ti	4879	1-10000	3000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the process controller Ti.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-27	Unit of process controller Ti	4883	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: ms 1: s								
	Description:								

	Defines the unit of process controller Ti.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-28	Process controller integral component enabled forcibly	4928	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable integral component of the process controller forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-29	Forced setting of integral component of process controller	4927	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the integral component of the process controller forcibly. Note: This parameter is active when o1-28 is enabled. You can monitor the integral component of the process controller through the derivative component of the custom process controller module (U19-89).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-30	Output upper limit of process controller	4903	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the output upper limit of process controller.								

	Note: The limit output of the controller is achieved by setting o1-30 to o1-33.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-31	Output upper limit coefficient of process controller	4929	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 100% Others: K connector								
	Description: Defines the output upper limit coefficient of process controller. Note: Upper limit of custom process controller module (U19-90) = o1-30 x o1-31 If the output of the custom process controller module reaches the limit, set U11-70 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-32	Output lower limit of process controller	4907	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the output lower limit of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-33	Output lower limit coefficient of process controller	4930	Refer to "Value"	2992	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 2: -100% Others: K connector								
	Description: Defines the output lower limit coefficient of process controller. Note:								

	Lower limit of custom process controller module (U19-91) = o1-32 x o1-33. If the output of the custom process controller module reaches the limit, set U11-70 to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-34	Output proportion of process controller	4911	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the output proportion of process controller. Note: The output proportion can be enlarged by setting o1-34 and o1-35.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o1-35	Output proportion coefficient of process controller	4931	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 100% Others: K connector								
	Description: Defines the output proportion coefficient of process controller. Note: Output value of enlarged proportion of custom process controller module (U19-94) = Output value of custom process controller module (U19-93) x o1-34 x o1-35								

o2 Process setting parameter group 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-00	Process setting word parameter 1	4722	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 1.								

	Note: It can be monitored through U19-67.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-01	Process setting word parameter 2	4726	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 2. Note: It can be monitored through U19-68.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-02	Process setting word parameter 3	4730	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 3. Note: It can be monitored through U19-69.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-03	Process setting word parameter 4	4734	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 4. Note: It can be monitored through U19-70.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-04	Process setting word parameter 5	4738	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 5. Note: It can be monitored through U19-71.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-05	Process setting word parameter 6	4742	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 6. Note: It can be monitored through U19-72.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-06	Process setting word parameter 7	4746	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 7. Note: It can be monitored through U19-73.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-07	Process setting word parameter 8	4750	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 8. Note: It can be monitored through U19-74.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-08	Process setting word parameter 9	4754	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 9. Note: It can be monitored through U19-75.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o2-09	Process setting word parameter 10	4758	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 10. Note: It can be monitored through U19-76.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-10	Process setting word parameter 11	4762	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 11. Note: It can be monitored through U19-77.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-11	Process setting word parameter 12	4766	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 12. Note: It can be monitored through U19-78.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-12	Process setting word parameter 13	4770	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 13. Note: It can be monitored through U19-79.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-13	Process setting word	4774	-300 to +3	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time

	parameter 14		00						
	Description: Defines the process setting word parameter 14. Note: It can be monitored through U19-80.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-14	Process setting bit parameter 1	4778	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 1. Note: It can be monitored through U11-64.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-15	Process setting bit parameter 2	4782	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 2. Note: It can be monitored through U11-65.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-16	Process setting bit parameter 3	4786	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 3. Note:								

	It can be monitored through U11-66.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-17	Process setting bit parameter 4	4790	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 4. Note: It can be monitored through U11-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-18	Process setting bit parameter 5	4794	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 5. Note: It can be monitored through U11-68.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o2-19	Process setting bit parameter 6	4798	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 6. Note: It can be monitored through U11-69.								

o3 Process controller parameter group 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-00	Process controller enable	4926	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Inhibited
1: Enabled
2: DI1
3: DI2
4: DI3
5: DI4
6: DI5
7: DI6
8: DIL
9: HDI1
10: HDI2
Others: B connector

Description:

Used to enable the process controller.

Note:

Set the execution sequence of the process controller through P9-24. You can enable all the four groups of process controllers by enabling any one of o1-00, o3-00, o5-00, and o7-00.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-01	Process controller type	4900	Refer to "Value"	11	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Integral control	0: Integral control invalid 1: Integral control valid
Tens-	Proportional control	0: Proportional control invalid 1: Proportional control valid
Hundreds-	Derivative control	0: Improving derivative control 1: Conventional derivative control
Thousands-	Calculation direction	0: Forward calculation 1: Reverse calculation

Description:

Defines the process controller type.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-02	Process controller	4919	Refer to	0	Unsigned	1	Real time	General	Effective in real

	reference 1		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller reference value 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-03	Process controller reference 2	4920	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller reference value 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-04	Process controller reference 3	4921	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller reference value 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-05	Process controller reference 4	4922	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description: Defines the process controller reference value 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-06	Enabling additional reference of process controller	4923	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable additional reference of the process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-07	Additional reference of process controller	4852	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the additional reference of the process controller. Note: You can view the final setpoint of the process controller by monitoring the setpoint of the custom process controller module (U19-84).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-08	Filter time reference of process controller	4856	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the filter time reference of process controller.								

	Note: The filtered reference value can be monitored through U19-85 (Filtered reference value of process controller module).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-09	Process controller feedback value 1	4915	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 1. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-10	Process controller feedback value 2	4916	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 2. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-11	Process controller feedback value 3	4917	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0：0 Others：K connector
	Description： Defines the process controller feedback value 3. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-12	Process controller feedback value 4	4918	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the process controller feedback value 4. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-13	Feedback filter time of process controller	4840	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the feedback filter time of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-14	Process controller Td	4844	0-100	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description：								

	Defines the process controller Td.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-15	Unit of process controller Td	4848	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: ms 1: s								
	Description: Defines the unit of process controller Td. Note: You can view the derivative component of the process controller by monitoring the derivative component of the custom process controller module (U19-83).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-16	Process controller softening function	4925	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable the softening function of the process controller. Note: The softening function is implemented by introducing negative feedback through o3-16 to o3-19.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-17	Process controller softening coefficient	4888	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the softening coefficient of the process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-18	Positive limit of softening function of process controller	4892	0-300	100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positive limit of softening function of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-19	Negative limit of softening function of process controller	4896	-300 to 0	-100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the negative limit of softening function of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-20	Kp reference of process controller	4860	0.00-125.00	3.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the Kp of the process controller. Value description: The Kp auto-tuning function is implemented by setting o3-20 to o3-25.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-21	Source of adaptive Kp of process controller	4924	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description: Defines the source of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-22	Minimum input value of adaptive Kp of process controller	4864	0-200	0	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of adaptive Kp of the process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-23	Maximum input value of adaptive Kp of process controller	4868	0-200	100	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-24	Minimum output value of adaptive Kp of process controller	4872	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of adaptive Kp of process controller. Note: You can monitor the proportional component of the process controller through the proportional component of the custom process controller module (U19-88).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-25	Maximum output value of adaptive Kp of process controller	4876	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

	Description: Defines the maximum output value of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-26	Process controller Ti	4880	1-10000	3000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the process controller Ti.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-27	Unit of process controller Ti	4884	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: ms 1: s								
	Description: Defines the unit of process controller Ti.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-28	Process controller integral component enabled forcibly	4928	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable integral component of the process controller forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-29	Forced setting of	4927	Refer to	0	Unsigned	1	Real time	General	Effective

	integral component of process controller		"Value"		16 bit		changes	user	in real time
	Value： 0： 0 Others： K connector								
	Description： Used to set the integral component of the process controller forcibly. Note: This parameter is active when o3-28 is enabled. You can monitor the integral component of the process controller through the derivative component of the custom process controller module (U19-89).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-30	Output upper limit of process controller	4904	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output upper limit of process controller. Note: The limit output of the controller is achieved by setting o3-30 to o3-33.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-31	Output upper limit coefficient of process controller	4929	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： 100% Others： K connector								
	Description： Defines the output upper limit coefficient of process controller. Note: Upper limit of custom process controller module (U19-90) = o3-30 x o3-31 If the output of the custom process controller module reaches the limit, set U11-70 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-32	Output lower limit of process controller	4908	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output lower limit of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-33	Output lower limit coefficient of process controller	4930	Refer to "Value"	2992	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 2： -100% Others： K connector								
	Description： Defines the output lower limit coefficient of process controller. Note: Lower limit of custom process controller module (U19-91) = o3-32 x o3-33. If the output of the custom process controller module reaches the limit, set U11-70 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-34	Output proportion of process controller	4912	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output proportion of process controller. Note: The output proportion can be enlarged by setting o3-34 and o3-35.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o3-35	Output proportion coefficient of process controller	4931	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 1： 100% Others： K connector
	Description： Defines the output proportion coefficient of process controller. Note: Output value of enlarged proportion of custom process controller module (U19-94) = Output value of custom process controller module (U19-93) x o3-34 x o3-35

o4 Process setting parameter group 3

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-00	Process setting word parameter 1	4723	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description： Defines the process setting word parameter 1. Note: It can be monitored through U19-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-01	Process setting word parameter 2	4727	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description： Defines the process setting word parameter 2. Note: It can be monitored through U19-68.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-02	Process setting word parameter 3	4731	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description： Defines the process setting word parameter 3.								

	Note: It can be monitored through U19-69.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-03	Process setting word parameter 4	4735	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 4. Note: It can be monitored through U19-70.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-04	Process setting word parameter 5	4739	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 5. Note: It can be monitored through U19-71.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-05	Process setting word parameter 6	4743	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 6. Note: It can be monitored through U19-72.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-06	Process setting word parameter 7	4747	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 7. Note: It can be monitored through U19-73.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-07	Process setting word parameter 8	4751	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 8. Note: It can be monitored through U19-74.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-08	Process setting word parameter 9	4755	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 9. Note: It can be monitored through U19-75.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-09	Process setting word parameter 10	4759	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 10. Note: It can be monitored through U19-76.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-10	Process setting word parameter 11	4763	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 11. Note: It can be monitored through U19-77.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o4-11	Process setting word parameter 12	4767	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 12. Note: It can be monitored through U19-78.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-12	Process setting word parameter 13	4771	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 13. Note: It can be monitored through U19-79.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-13	Process setting word parameter 14	4775	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 14. Note: It can be monitored through U19-80.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-14	Process setting bit parameter 1	4779	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 1. Note: It can be monitored through U11-64.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o4-15	Process setting bit parameter 2	4783	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 2. Note: It can be monitored through U11-65.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-16	Process setting bit parameter 3	4787	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 3. Note: It can be monitored through U11-66.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-17	Process setting bit parameter 4	4791	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 4. Note: It can be monitored through U11-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-18	Process setting bit parameter 5	4795	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								

	Description： Defines the process setting bit parameter 5. Note: It can be monitored through U11-68.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o4-19	Process setting bit parameter 6	4799	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Logic 0 1： Logic 1								
	Description： Defines the process setting bit parameter 6. Note: It can be monitored through U11-69.								

o5 Process controller parameter group 3

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-00	Process controller enable	4926	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Inhibited 1： Enabled 2： DI1 3： DI2 4： DI3 5： DI4 6： DI5 7： DI6 8： DIL 9： HDI1 10： HDI2 Others： B connector								
	Description： Used to enable the process controller. Note: Set the execution sequence of the process controller through P9-24. You can enable all the four groups of process controllers by enabling any one of o1-00, o3-00, o5-00, and o7-00.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o5-01	Process controller type	4901	Refer to "Value"	11	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Integral control	0: Integral control invalid 1: Integral control valid
Tens-	Proportional control	0: Proportional control invalid 1: Proportional control valid
Hundreds-	Derivative control	0: Improving derivative control 1: Conventional derivative control
Thousands-	Calculation direction	0: Forward calculation 1: Reverse calculation

Description:

Defines the process controller type.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-02	Process controller reference 1	4919	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: 0

Others: K connector

Description:

Defines the process controller reference value 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-03	Process controller reference 2	4920	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: 0

Others: K connector

Description:

Defines the process controller reference value 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-04	Process controller reference 3	4921	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller reference value 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-05	Process controller reference 4	4922	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller reference value 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-06	Enabling additional reference of process controller	4923	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable additional reference of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o5-07	Additional reference of process controller	4853	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the additional reference of the process controller. Note: You can view the final setpoint of the process controller by monitoring the setpoint of the custom process controller module (U19-84).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-08	Filter time reference of process controller	4857	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the filter time reference of process controller. Note: The filtered reference value can be monitored through U19-85 (Filtered reference value of process controller module).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-09	Process controller feedback value 1	4915	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 1. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-10	Process controller feedback value 2	4916	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 2. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-11	Process controller feedback value 3	4917	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 3. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-12	Process controller feedback value 4	4918	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description： Defines the process controller feedback value 4. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-13	Feedback filter time of process controller	4841	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the feedback filter time of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-14	Process controller Td	4845	0-100	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the process controller Td.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-15	Unit of process controller Td	4849	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： ms 1： s								
	Description： Defines the unit of process controller Td. Note: You can view the derivative component of the process controller by monitoring the derivative component of the custom process controller module (U19-83).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o5-16	Process controller softening function	4925	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable the softening function of the process controller. Note: The softening function is implemented by introducing negative feedback through o5-16 to o5-19.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-17	Process controller softening coefficient	4889	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the softening coefficient of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-18	Positive limit of softening function of process controller	4893	0-300	100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positive limit of softening function of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-19	Negative limit of softening function of process controller	4897	-300 to 0	-100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the negative limit of softening function of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-20	Kp reference of process controller	4861	0.00-125.00	3.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the Kp of the process controller. Value description: The Kp auto-tuning function is implemented by setting o5-20 to o5-25.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-21	Source of adaptive Kp of process controller	4924	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of adaptive Kp of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-22	Minimum input value of adaptive Kp of process controller	4865	0-200	0	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of adaptive Kp of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-23	Maximum input value of adaptive Kp of process controller	4869	0-200	100	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the maximum input value of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-24	Minimum output value of adaptive Kp of process controller	4873	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of adaptive Kp of process controller. Note: You can monitor the proportional component of the process controller through the proportional component of the custom process controller module (U19-88).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-25	Maximum output value of adaptive Kp of process controller	4877	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-26	Process controller Ti	4881	1-10000	3000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the process controller Ti.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-27	Unit of process controller Ti	4885	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: ms								

	1：s
	Description： Defines the unit of process controller Ti.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-28	Process controller integral component enabled forcibly	4928	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Inhibited 1：Enabled 2：DI1 3：DI2 4：DI3 5：DI4 6：DI5 7：DI6 8：DIL 9：HDI1 10：HDI2 Others：B connector								
	Description： Defines whether to enable integral component of the process controller forcibly.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-29	Forced setting of integral component of process controller	4927	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Used to set the integral component of the process controller forcibly. Note: This parameter is active when o5-28 is enabled. You can monitor the integral component of the process controller through the derivative component of the custom process controller module (U19-89).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-30	Output upper limit of process controller	4905	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

	Description： Defines the output upper limit of process controller. Note: The limit output of the controller is achieved by setting o5-30 to o5-33.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-31	Output upper limit coefficient of process controller	4929	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： 100% Others： K connector								
	Description： Defines the output upper limit coefficient of process controller. Note: Upper limit of custom process controller module (U19-90) = o5-30 x o5-31 If the output of the custom process controller module reaches the limit, set U11-70 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-32	Output lower limit of process controller	4909	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output lower limit of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-33	Output lower limit coefficient of process controller	4930	Refer to "Value"	2992	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 2： -100% Others： K connector								
	Description： Defines the output lower limit coefficient of process controller.								

	Note: Lower limit of custom process controller module (U19-91) = o5-32 x o5-33. If the output of the custom process controller module reaches the limit, set U11-70 to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-34	Output proportion of process controller	4913	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines the output proportion of process controller. Note: The output proportion can be enlarged by setting o5-34 and o5-35.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o5-35	Output proportion coefficient of process controller	4931	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 100% Others: K connector								
	Description: Defines the output proportion coefficient of process controller. Note: Output value of enlarged proportion of custom process controller module (U19-94) = Output value of custom process controller module (U19-93) x o5-34 x o5-35								

o6 Process setting parameter group 4

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-00	Process setting word parameter 1	4724	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the process setting word parameter 1. Note: It can be monitored through U19-67.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-01	Process setting word parameter 2	4728	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 2. Note: It can be monitored through U19-68.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-02	Process setting word parameter 3	4732	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 3. Note: It can be monitored through U19-69.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-03	Process setting word parameter 4	4736	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 4. Note: It can be monitored through U19-70.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-04	Process setting word parameter 5	4740	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 5.								

	Note: It can be monitored through U19-71.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-05	Process setting word parameter 6	4744	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 6. Note: It can be monitored through U19-72.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-06	Process setting word parameter 7	4748	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 7. Note: It can be monitored through U19-73.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-07	Process setting word parameter 8	4752	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 8. Note: It can be monitored through U19-74.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-08	Process setting word parameter 9	4756	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 9. Note: It can be monitored through U19-75.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-09	Process setting word parameter 10	4760	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 10. Note: It can be monitored through U19-76.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-10	Process setting word parameter 11	4764	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 11. Note: It can be monitored through U19-77.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-11	Process setting word parameter 12	4768	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 12. Note: It can be monitored through U19-78.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-12	Process setting word parameter 13	4772	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 13. Note: It can be monitored through U19-79.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o6-13	Process setting word parameter 14	4776	-300 to +3 00	0	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the process setting word parameter 14. Note: It can be monitored through U19-80.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-14	Process setting bit parameter 1	4780	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 1. Value description: 0: Logic 0 1: Logic 1 Note: It can be monitored through U11-64.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-15	Process setting bit parameter 2	4784	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 2. Value description: 0: Logic 0 1: Logic 1 Note: It can be monitored through U11-65.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o6-16	Process setting bit parameter 3	4788	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 3. Note: It can be monitored through U11-66.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-17	Process setting bit parameter 4	4792	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 4. Note: It can be monitored through U11-67.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-18	Process setting bit parameter 5	4796	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								
	Description: Defines the process setting bit parameter 5. Note: It can be monitored through U11-68.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o6-19	Process setting bit parameter 6	4800	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Logic 0 1: Logic 1								

	Description： Defines the process setting bit parameter 6. Note: It can be monitored through U11-69.

o7 Process controller parameter group 4

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-00	Process controller enable	4926	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Inhibited 1：Enabled 2：DI1 3：DI2 4：DI3 5：DI4 6：DI5 7：DI6 8：DIL 9：HDI1 10：HDI2 Others：B connector								
	Description： Used to enable the process controller. Note: Set the execution sequence of the process controller through P9-24. You can enable all the four groups of process controllers by enabling any one of o1-00, o3-00, o5-00, and o7-00.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-01	Process controller type	4902	Refer to "Value"	11	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value：

Bit	Name	Value
Ones-	Integral control	0: Integral control invalid 1: Integral control valid
Tens-	Proportional control	0: Proportional control invalid 1: Proportional control valid
Hundreds-	Derivative control	0: Improving derivative control 1: Conventional derivative control

Thousands-	Calculation direction	0: Forward calculation 1: Reverse calculation	

Description:
Defines the process controller type.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-02	Process controller reference 1	4919	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:
0: 0
Others: K connector

Description:
Defines the process controller reference value 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-03	Process controller reference 2	4920	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:
0: 0
Others: K connector

Description:
Defines the process controller reference value 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-04	Process controller reference 3	4921	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:
0: 0
Others: K connector

Description:
Defines the process controller reference value 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-05	Process controller reference 4	4922	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller reference value 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-06	Enabling additional reference of process controller	4923	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable additional reference of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-07	Additional reference of process controller	4854	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the additional reference of the process controller. Note: You can view the final setpoint of the process controller by monitoring the setpoint of the custom process controller								

	module (U19-84).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-08	Filter time reference of process controller	4858	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the filter time reference of process controller. Note: The filtered reference value can be monitored through U19-85 (Filtered reference value of process controller module).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-09	Process controller feedback value 1	4915	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 1. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-10	Process controller feedback value 2	4916	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 2.								

	Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-11	Process controller feedback value 3	4917	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 3. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-12	Process controller feedback value 4	4918	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the process controller feedback value 4. Note: You can view the final feedback value by monitoring the feedback value of the custom process controller module (U19-81).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-13	Feedback filter time of process controller	4842	0.00-60.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

	Description： Defines the feedback filter time of process controller.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-14	Process controller Td	4846	0-100	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the process controller Td.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-15	Unit of process controller Td	4850	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： ms 1： s								
	Description： Defines the unit of process controller Td. Note: You can view the derivative component of the process controller by monitoring the derivative component of the custom process controller module (U19-83).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-16	Process controller softening function	4925	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Inhibited 1： Enabled 2： DI1 3： DI2 4： DI3 5： DI4 6： DI5 7： DI6 8： DIL 9： HDI1 10： HDI2 Others： B connector								
	Description： Defines whether to enable the softening function of the process controller.								

	Note: The softening function is implemented by introducing negative feedback through o7-16 to o7-19.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-17	Process controller softening coefficient	4890	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the softening coefficient of the process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-18	Positive limit of softening function of process controller	4894	0-300	100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positive limit of softening function of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-19	Negative limit of softening function of process controller	4898	-300 to 0	-100	Signed 16 bits	0.01	Real time changes	General user	Effective in real time
	Description: Defines the negative limit of softening function of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-20	Kp reference of process controller	4862	0.00-125.00	3.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the Kp of the process controller. Value description: The Kp auto-tuning function is implemented by setting o7-20 to o7-25.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-21	Source of adaptive Kp of process controller	4924	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the source of adaptive Kp of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-22	Minimum input value of adaptive Kp of process controller	4866	0-200	0	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum input value of adaptive Kp of the process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-23	Maximum input value of adaptive Kp of process controller	4870	0-200	100	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum input value of adaptive Kp of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-24	Minimum output value of adaptive Kp of process controller	4874	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the minimum output value of adaptive Kp of process controller. Note:								

	You can monitor the proportional component of the process controller through the proportional component of the custom process controller module (U19-88).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-25	Maximum output value of adaptive Kp of process controller	4878	0.10-30.00	1.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the maximum output value of adaptive Kp of process controller.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-26	Process controller Ti	4882	1-10000	3000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the process controller Ti.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-27	Unit of process controller Ti	4886	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: ms 1: s								
	Description: Defines the unit of process controller Ti.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-28	Process controller integral component enabled forcibly	4928	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 4: DI3 8: DIL								

	1：Enabled 2：DI1 3：DI2 5：DI4 6：DI5 7：DI6 9：HDI1 10：HDI2 Others：B connector								
	Description： Defines whether to enable integral component of the process controller forcibly.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-29	Forced setting of integral component of process controller	4927	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Used to set the integral component of the process controller forcibly. Note: This parameter is active when o7-28 is enabled. You can monitor the integral component of the process controller through the derivative component of the custom process controller module (U19-89).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-30	Output upper limit of process controller	4906	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output upper limit of process controller. Note: The limit output of the controller is achieved by setting o7-30 to o7-33.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-31	Output upper limit coefficient of process controller	4929	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	1：100% Others：K connector
	Description： Defines the output upper limit coefficient of process controller. Note: Upper limit of custom process controller module (U19-90) = o7-30 x o7-31 If the output of the custom process controller module reaches the limit, set U11-70 to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-32	Output lower limit of process controller	4910	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output lower limit of process controller.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-33	Output lower limit coefficient of process controller	4930	Refer to "Value"	2992	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 2：-100% Others：K connector								
	Description： Defines the output lower limit coefficient of process controller. Note: Lower limit of custom process controller module (U19-91) = o7-32 x o7-33. If the output of the custom process controller module reaches the limit, set U11-70 to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-34	Output proportion of process controller	4914	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the output proportion of process controller.								

	Note: The output proportion can be enlarged by setting o7-34 and o7-35.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o7-35	Output proportion coefficient of process controller	4931	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: 100% Others: K connector								
	Description: Defines the output proportion coefficient of process controller. Note: Output value of enlarged proportion of custom process controller module (U19-94) = Output value of custom process controller module (U19-93) x o7-34 x o7-35								

o10 Slewing control process

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o10-00	Slewing motor selection	2826	Refer to "Value"	1027	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Slewing motor 1: Traveling motor Others: B connector								
	Description: Used to select the slewing motor.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o10-01	Slewing control source	2827	Refer to "Value"	1026	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Communication setting								

	1：Analog Others：B connector
	Description： Defines the slewing control source.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o10-02	Slewing communication setting source	2828	Refer to "Value"	1546	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the slewing communication setting source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o10-03	Slewing analog reference source	2829	Refer to "Value"	1518	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the slewing analog reference source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o10-06	Maximum speed for slewing	2830	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the maximum speed for slewing.								

o13 Auxiliary functions

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o13-00	Soft torque selection	6770	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Inhibited								

	1：Enabled Others：B connector
	Description： Defines whether to enable soft torque.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o13-01	Soft torque rise time	6771	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the soft torque rise time.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o13-02	Soft torque fall time	6772	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines the soft torque fall time.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o13-03	Soft torque integral freeze	6773	Refer to "Value"	1466	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Inhibited 1：Enabled Others：B connector								
	Description： Defines whether to freeze soft torque integral.								

o15 Position controller

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-00	Position control state	36010	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： 0：Invalid 1：Enabled 2：Initializing 3：Waiting for position 5：Home invalid 6：Homing in progress 7：Home valid 8：Waiting for positioning to start 9：Positioning in progress 10：Hold in the positioning completion state 11：Interrupt positioning in								

	synchronization 4: Position synchronization in progress				progress 12: Position control pause				
	Description: Displays the status of the current position control.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-01	Position control selection	5941	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2		4: DI3 5: DI4 6: DI5 7: DI6		8: DIL 9: HDI1 10: HDI2 Others: B connector				
	Description: Defines whether position control is enabled. Note: Before enabling position control, perform encoder configuration (o15-10), basic commissioning (speed loop tuning), and dimension conversion (o15-14 to o15-19). After configuration is done, you can perform positioning control through parameters in group o17. For detailed configuration, see the corresponding section of the MD880 function guide.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-02	Position control pause source	5943	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2		4: DI3 5: DI4 6: DI5 7: DI6		8: DIL 9: HDI1 10: HDI2 Others: B connector				
	Description: Defines position control pause source. Value description: 0: Invalid 1: Reserved - When the pause action is rising edge-triggered, the speed is reduced to 0 based on the effective deceleration time of the ramp function generator, with current positioning ended. 2: DI1 3: DI2								

	4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector Note: After the pause command is canceled, the positioning start command needs to be triggered again.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-03	Position control type	5942	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Positioning control 1： Synchronous control Others： B connector								
	Description： Defines the position control type. Value description: 0; Positioning control - When the controller receives a position reference or encoder pulse, the controller generates a real-time motion curve internally under the limits of acceleration/deceleration time and speed, making the motor shaft follow the position curve to allow the load to reach the target position. 1: Synchronous control - Two controllers control two axes respectively, in which the master controller transmits the position reference or encoder pulse sequence to the slave controller, allowing the slave axis to follow operating state of the master axis. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-05	Position control load axis type	5958	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0： Linear axis 1： Rotary axis								
	Description： Defines the position control load axis type.								

	Value description: 0: Linear axis 1: Rotary axis - Set o15-06 [Rotary axis position range].

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-06	Rotary axis position range	5750	1-2147483647	3600	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the rotary axis position range. Note: This parameter is valid when o15-05 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-10	Position detection feedback source	5960	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Current motor group encoder 1: Encoder 1 2: Encoder 2 3: Encoder 3 4: Custom								
	Description: Defines the position detection feedback source. Value description: 0: Encoder of current motor group - Determined by the speed feedback encoder(d0-11) 1: Encoder 1 - Determined by encoder 1 configured in group n4 2: Encoder 2 - Determined by encoder 2 configured in group n5 3: Encoder 3 - Determined by encoder 3 configured in group n6 4: Custom - Position feedback determined by o15-11 Note: Before commissioning the positioning function, run the drive in the speed control mode first to confirm that the absolute position value of U29-00 increases during forward operating. During reverse operating, the absolute position value of U29-00 decreases. If the test result is reversed, you can modify parameters n4/5/6-19.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-11	Custom position feedback source	5961	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

	0：0 Others：K connector
	Description： Defines the custom position feedback source. Note: This parameter is valid when o15-10 is set to 4. The final effective position feedback is the feedback source x o15-12/o15-13.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-12	Numerator of custom feedback conversion coefficient	5962	1-2147483647	1	Unsigned 32	1	Shutdown change	General user	Effective in real time
	Description： Defines the numerator of custom feedback conversion coefficient. Note: This parameter is valid when o15-10 is set to 4. The final effective position feedback is the feedback source x o15-12/o15-13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-13	Denominator of custom feedback conversion coefficient	5964	1-2147483647	1	Unsigned 32	1	Shutdown change	General user	Effective in real time
	Description： Defines the denominator of custom feedback conversion coefficient. Note: This parameter is valid when o15-10 is set to 4. The final effective position feedback is the feedback source x o15-12/o15-13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-14	Position feedback calibration method	5970	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value： 0：Incremental calibration method 1：Nameplate setting method								
	Description： Defines the position feedback calibration method.								

	Value description: 0: Incremental calibration method - Configured by o15-15 to o15-16 1: Nameplate setting method - Configured by o15-17 to o15-19 Note: When the on-site transmission mechanism can be moved and the on-site transmission ratio is not clear or a high accuracy is required, the incremental calibration method is recommended . The nameplate calibration method can be used based on the available information when the on-site transmission mechanism cannot be moved.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-15	Incremental calibration method - Operating distance increment on the load side	6026	1-2147483647	1	Unsigned 32	1	Shutdown change	General user	Effective in real time
	Description: Defines the operating distance increment on the load side for the incremental calibration method. Note: This parameter is valid when o15-14 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-16	Incremental calibration method - Position feedback encoder pulse increment	6028	1-2147483647	1	Unsigned 32	1	Shutdown change	General user	Effective in real time
	Description: Defines the position feedback encoder pulse increment for the incremental calibration method. Note: This parameter is valid when o15-14 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-17	Nameplate method - LU/Revolution setting on the load side	6024	1-2147483647	1	Unsigned 32	1	Shutdown change	General user	Effective in real time

	Description: Defines the LU/Revolution setting on the load side for the nameplate method. Note: Defines the corresponding load-side LU per revolution of the encoder, which is valid when o15-14 is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-18	Nameplate method - Motor revolutions for motor/load transmission ratio	5953	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the motor revolutions for motor/load transmission ratio for the nameplate method. Note: This parameter is valid when o15-14 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-19	Nameplate method - Load revolutions for motor/load transmission ratio	5954	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the load revolutions for motor/load transmission ratio for the nameplate method. Note: This parameter is valid when o15-14 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-20	Average filter time of position feedback	5966	0-128	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the average filter time of position feedback.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-21	First-order filter time of position feedback	5967	0-1000	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description:								

	Defines the first-order filter time of position feedback.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-27	Position loop switchover	5973	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Set through o15-28 1: Switched based on position deviation								
	Description: Used to select the position loop switchover source. Value description: 0: Set by o15-28 - Determined by o15-28 1: Switched based on position deviation - Determined by o15-29 to o15-30								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-28	Position loop selection	5974	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Position loop 1 1: Position loop 2 Others: B connector								
	Description: Used to select the position loop. Value description: 0: Position loop 1 - o15-31, o15-34, and o15-37 are active. 1: Position loop 2 - o15-32, o15-35, and o15-38 are active. Others: B connector Note: This parameter is valid when o15-27 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-29	Position loop switchover position deviation 1	5975	0-65535	20	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines position loop switchover position deviation 1.								

	Note: When the real-time position deviation (U29-05) is lower than this parameter value, the position loop 1 (o15-31, o15-34, and o15-37) is active. When U29-05 is higher than the position loop switchover position deviation 2 (o15-30), the position loop 2 (o15-32, o15-35, and o15-38) is active. When U29-05 is between deviation 1 and deviation 2, the parameters of position loop 1 and 2 are linearized. This parameter is valid when o15-27 is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-30	Position loop switchover position deviation 2	5976	0-65535	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines position loop switchover position deviation 2. Note: After the pause command is canceled, the positioning start command needs to be triggered again.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-31	Position loop Kp1	5971	0.00-100.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the position loop Kp1. Note: Increasing the proportional gain Kp of the position loop improves the dynamic responsiveness of the position controller. However, for rigid devices, increasing the gain may result in equipment vibration. The switchover between Kp1 and Kp2 is determined by o15-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-32	Position loop Kp2	5972	0.00-100.00	20.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the position loop Kp2. Note: Increasing the proportional gain Kp of the position loop improves the dynamic responsiveness of the position controller. However, for rigid devices, increasing the gain may result in equipment vibration. The switchover between Kp1 and Kp2 is determined by o15-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-33	Position loop speed feedforward source	5987	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Automatic calculation Others: K connector								
	Description: Defines the position loop speed feedforward source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-34	Speed feedforward Kv1 of position loop	5977	0.000-2.000	1.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the speed feedforward Kv1 of position loop. Note: Similarly, increasing the speed feedforward gain Kv can also improve the dynamic responsiveness, but it may lead to overshoot or equipment vibration. Therefore, adjust the feedforward gain gradually. The switchover between Kv1 and Kv2 is determined by o15-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-35	Speed feedforward Kv2 of position loop	5978	0.000-2.000	1.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the speed feedforward Kv2 of position loop. Note: Similarly, increasing the speed feedforward gain Kv can also improve the dynamic responsiveness, but it may lead to overshoot or equipment vibration. Therefore, adjust the feedforward gain gradually. The switchover between Kv1 and Kv2 is determined by o15-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-36	Acceleration feedforward source of position loop	5989	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value:								

	0：Automatic calculation Others：K connector
	Description： Defines the acceleration feedforward source of position loop.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-37	Acceleration feedforward Ka1 of position loop	5979	0.000-2.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the acceleration feedforward Ka1 of position loop. Note: The switchover between Ka1 and Ka2 is determined by o15-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-38	Acceleration feedforward Ka2 of position loop	5980	0.000-2.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description： Defines the acceleration feedforward Ka2 of position loop. Note: The switchover between Ka1 and Ka2 is determined by o15-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-45	Position loop deviation dead zone	5983	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Inhibited 1：Enabled Others：B connector								
	Description： Defines whether to enable position loop deviation dead zone. Value description: 0: Inhibited 1: Enabled - Set the dead zone range through o15-46. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o15-46	Position loop deviation dead zone range	5984	0-5000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the position loop deviation dead zone range. Note: This parameter is valid when o15-45 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-48	Position deviation clear command source	5991	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines the position deviation clear command source. Value description: 0: Invalid 1: Valid - The position deviation is cleared once upon the rising edge (U29-05 [Real-time position deviation]). Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-49	Threshold for excessive position deviation	5992	0-2147483647	600	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold for excessive position deviation. Note: When the real-time position deviation (U29-05) exceeds this threshold for a period loner than o15-50, F187-1 (Excessive position deviation) will be reported.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-50	Detection time of excessive position deviation	5994	0.00-600.00	0.50	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the detection time of excessive position deviation.								

	Note: When the real-time position deviation (U29-05) exceeds this threshold for a period loner than o15-50, F187-1 (Excessive position deviation) will be reported.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-51	Position deviation compensation limit	5845	0-65535	6000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the position deviation compensation limit. Note: This parameter is used to limit the position compensation value set by o16-07.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-52	Threshold of positioning completion	6001	0-2147483647	10	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of positioning completion. Note: When the real-time position deviation (U29-05) keeps lower than this threshold for a period longer than the value of o15-53, and the position curve generated internally reaches the set value, positioning is done. In this case, U20-19 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-53	Judgment time of positioning completion	6003	0-60000	4	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the judgment time of positioning completion. Note: When the real-time position deviation (U29-05) keeps lower than this threshold for a period longer than the value of o15-53, and the position curve generated internally reaches the set value, positioning is done. In this case, U20-19 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-54	Positioning completion timeout time	5797	0.00-600.00	5.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the positioning completion timeout time. Note: When the position curve generated internally reaches the setpoint but the real-time position deviation (U29-05) keeps higher than the threshold defined by o15-52 for a period longer than the set timeout time, F187-3 (Positioning completion timeout) is reported.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o15-55	Filter time of internal deviation compensation	6014	0-1000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the filter time of internal deviation compensation.								

o16 Synchronization control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-00	Effective state of synchronization control	36060	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Displays the effective state of synchronization control.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-02	Synchronous control reference source	5948	Refer to "Value"	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Encoder 1 1: Encoder 2 2: Encoder 3 Others: K connector								
	Description: Defines synchronous control reference source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o16-03	Numerator of reference unit conversion factor	5951	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the numerator of reference unit conversion factor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-04	Denominator of reference unit conversion factor	5952	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the denominator of reference unit conversion factor.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-05	Average filter time of reference command	5949	0-128	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description: Defines the average filter time of position references.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-06	First-order filter time of reference command	5950	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the first-order filter time of position references.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-07	Position compensation input type	6010	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Position deviation 1: Absolute position								
	Description: Defines the position compensation input type.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-08	Position compensation input source	5955	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 Others: K connector
	Description: Defines the position compensation input source.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-09	Position compensation triggering command	6007	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the position compensation triggering command.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-10	Triggering command source transmission delay	6011	0-128	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the triggering command source transmission delay.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-11	Numerator of position deviation compensation conversion coefficient	5956	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the numerator of position deviation compensation conversion coefficient.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-12	Denominator of position deviation compensation conversion coefficient	5957	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the denominator of position deviation compensation conversion coefficient.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o16-13	Linear change time of position deviation compensation	6005	0-65000	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the linear change time of position deviation compensation.								

o17 Positioning control

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-00	Effective state of positioning control	36061	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Displays the effective state of positioning control. Note: To enable positioning control, you need to enable position control first (o15-01).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-01	Main reference source of positioner	5742	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Multi-segment position instruction 1: Custom								
	Description: Defines the main reference source of the positioner. Value description: 0: Multi-position reference - Set by group o18								

1: Custom - Set by o17-02

Note:
The source of the positioner is (main reference source + auxiliary reference source (o17-04)) x numerator of the reference unit conversion coefficient (o17-05)/denominator of the reference unit conversion coefficient (o17-06).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-02	Custom reference source	5743	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:
0: 0
Others: K connector

Description:
Defines the custom reference source of the positioner.

Note:
This parameter is valid when o17-01 is set to 1, the property is configured by o17-03.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-03	Custom reference property	5744	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion

Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the custom reference property of the positioner, which is used to configure the property of o17-02.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-04	Auxiliary reference source of positioner	5745	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： 0 Others： K connector
	Description： Defines the auxiliary reference source of positioner. Value description: 0: 0 Others: K connector Note: The source of the positioner is (main reference source + auxiliary reference source (o17-04)) x numerator of the reference unit conversion coefficient (o17-05)/denominator of the reference unit conversion coefficient (o17-06).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-05	Numerator of reference unit conversion factor	5981	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description： Defines the numerator of reference unit conversion factor. Note: The source of the positioner is (main reference source + auxiliary reference source (o17-04)) x numerator of the reference unit conversion coefficient (o17-05)/denominator of the reference unit conversion coefficient (o17-06).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-06	Denominator of reference unit conversion factor	5982	1-65535	1	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Description： Defines the denominator of reference unit conversion factor. Note: The source of the positioner is (main reference source + auxiliary reference source (o17-04)) x numerator of the reference unit conversion coefficient (o17-05)/denominator of the reference unit conversion coefficient (o17-06).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
o17-07	Positioning start signal source	5746	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the positioning start signal source. Note: You need to enter the operating state through the off1 command first. In positioning control, the zero speed is kept after off1 operation. In this case, the system operates as defined by o17-01 upon receiving the positioning start command.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-09	Positioner function selection	5747	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Positioning started again before incremental positioning is done	0: The start command is invalid. 1: Perform positioning again based on the current position. 2: Perform positioning again, with unfinished distance included
Tens-	Positioning started again after incremental positioning is done	0: Current deviation included into the traveling distance upon start 1: Deviation cleared upon start
Hundreds-	Reserved	
Thousands-	Reserved	
Ten thousands-	Reserved	

Description:

Defines the function of the positioner.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-10	Position reference activation mode	5796	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Activated once when the start command is triggered 1: Activated continuously (absolute positioning) 2: Activated continuously before positioning is completed								
	Description: Defines the mode for activating position reference. Value description: 0: Activated once when the start command is triggered 1: Activated continuously (absolute positioning): When absolute positioning is performed, the positioning start command does not need to be triggered repeatedly. When the absolute position reference changes, the new position reference is immediately executed. 2: Activated continuously before positioning is completed - During absolute positioning, when the absolute position reference changes before positioning ends, the new position reference is immediately executed.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-11	Backlash upon forward run	5748	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
o17-12	Backlash upon reverse run	5749	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-16	Operating direction of the rotary axis	5752	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Forward 1: Reverse 2: Proximity positioning								
	Description:								

	Defines the operating direction of the rotary axis. Note: This parameter is valid when o15-05 is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-17	Inversion of linear axis target position reference	5753	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines whether to invert the target position reference of the linear axis. Value description: 0: Invalid - The target position reference is not inverted. 1: Valid - The target position reference is inverted. Others: B connector Note: This parameter is valid when o15-05 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-18	Position compensation input type	6008	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Position deviation 1: Absolute position								
	Description: Defines the position compensation input type. Value description: 0: Position deviation value - The input of o17-19 is the position deviation value. The value of U29-00 [Current absolute position] is subtracted with this compensation value.								

	1: Absolute position value - The input of o17-19 is the absolute position value. The value of U29-00 [Current absolute position] is corrected to this compensation value. Note: The position compensation command is triggered by o17-20. The effective position compensation value is limited by the position deviation compensation limit (o15-51) through o17-21 to o17-23 and processed through linear change time of position deviation compensation (o17-24).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-19	Position compensation input source	5821	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the position compensation input source. Note: The position compensation command is triggered by o17-20. The effective position compensation value is limited by the position deviation compensation limit (o15-51) through o17-21 to o17-23 and processed through linear change time of position deviation compensation (o17-24).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-20	Position compensation triggering command	6006	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the position compensation triggering command. Note: The position compensation command is triggered by o17-20. The effective position compensation value is limited by the								

	position deviation compensation limit (o15-51) through o17-21 to o17-23 and processed through linear change time of position deviation compensation (o17-24).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-21	Triggering command source transmission delay	6009	0-128	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the position compensation triggering command. Note: It is used to calculate the position compensation value accurately, which is set according to the actual transmission delay. The position compensation command is triggered by o17-20. The effective position compensation value is limited by the position deviation compensation limit (o15-51) through o17-21 to o17-23 and processed through linear change time of position deviation compensation (o17-24).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-22	Numerator of position deviation compensation conversion coefficient	5822	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the numerator of position deviation compensation conversion coefficient. Note: The deviation compensation value calculated by o17-18 is multiplied by this numerator and then divided by o17-23 before being limited.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-23	Denominator of position deviation compensation conversion	5823	1-65535	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	coefficient								
	Description: Defines the denominator of position deviation compensation conversion coefficient. Note: The deviation compensation value calculated by o17-18 is multiplied by o17-22 and then divided by o17-23 before being limited.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-24	Linear change time of position deviation compensation	5824	0-65000	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the linear change time of position deviation compensation. Note: The position compensation command is triggered by o17-20. The effective position compensation value is limited by the position deviation compensation limit (o15-51) through o17-21 to o17-23 and processed through linear change time of position deviation compensation (o17-24).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-25	Positioner acceleration time 1	5754	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner acceleration time 1. Note: The acceleration time is the time required for the motor to accelerate from 0 to 100%. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-26	Positioner deceleration time 1	5758	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description:								

	Defines the positioner deceleration time 1. Note: The deceleration time is the time required for the motor to decelerate from 100% to 0. Configure through o17-03 and o18-23 to o18-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-27	Positioner acceleration time 2	5755	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner acceleration time 2. Note: The acceleration time is the time required for the motor to accelerate from 0 to 100%. Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-28	Positioner deceleration time 2	5759	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner deceleration time 2. Note: The deceleration time is the time required for the motor to decelerate from 100% to 0. Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-29	Positioner acceleration time 3	5756	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner acceleration time 3. Note: The acceleration time is the time required for the motor to accelerate from 0 to 100%. Configure through o17-03 and o18-								

	23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-30	Positioner deceleration time 3	5760	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner deceleration time 3. Note: The deceleration time is the time required for the motor to decelerate from 100% to 0. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-31	Positioner acceleration time 4	5757	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner acceleration time 4. Note: The acceleration time is the time required for the motor to accelerate from 0 to 100%. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-32	Positioner deceleration time 4	5761	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the positioner deceleration time 4. Note: The deceleration time is the time required for the motor to decelerate from 100% to 0. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o17-33	Positioner positive speed limit 1	5762	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Parameter Others: K connector								
	Description: Defines the positive speed limit 1 of the positioner. Value description: 0: Digital setting - o17-34 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-34	Digital setting 1 of positioner positive speed limit	5766	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines digital setting 1 of positioner positive speed limit. Note: This parameter is valid when o17-33 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-35	Positioner negative speed limit 1	5770	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Digital setting 1: Positive speed limit inverted Others: K connector								
	Description: Defines the negative speed limit 1 of the positioner.								

	Value description: 0: Digital setting - o17-36 1: Positive speed limit inverted - Equal to the inverted value of o17-33 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-36	Digital setting 1 of positioner negative speed limit	5774	-600 to 0	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines digital setting 1 of positioner negative speed limit. Note: This parameter is valid when o17-35 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-37	Positioner positive speed limit 2	5763	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Parameter Others： K connector								
	Description： Defines the positive speed limit 2 of the positioner. Value description: 0: Digital setting - o17-38 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o17-38	Digital setting 2 of positioner positive speed limit	5767	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines digital setting 2 of positioner positive speed limit. Note: This parameter is valid when o17-37 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-39	Positioner REV speed limit 2	5771	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Digital setting 1: Positive speed limit inverted Others: K connector								
	Description: Defines the negative speed limit 2 of the positioner. Value description: 0: Digital setting - o17-40 1: Positive speed limit inverted - Equal to the inverted value of o17-37 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-40	Digital setting 2 of positioner negative speed limit	5775	-600 to 0	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines digital setting 2 of positioner negative speed limit. Note:								

	This parameter is valid when o17-39 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-41	Positioner FWD speed limit 3	5764	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Parameter Others: K connector								
	Description: Defines the positive speed limit 3 of the positioner. Value description: 0: Digital setting - o17-42 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-42	Digital setting 3 of positioner positive speed limit	5768	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines digital setting 3 of positioner positive speed limit. Note: This parameter is valid when o17-41 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-43	Positioner REV speed limit 3	5772	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Digital setting 1: Positive speed limit inverted								

	Others： K connector
	Description： Defines the negative speed limit 3 of the positioner. Value description: 0: Digital setting - o17-44 1: Positive speed limit inverted - Equal to the inverted value of o17-41 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-44	Digital setting 3 of positioner negative speed limit	5776	-600 to 0	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines digital setting 3 of positioner negative speed limit. Note: This parameter is valid when o17-43 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-45	Positioner FWD speed limit 4	5765	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Parameter Others： K connector								
	Description： Defines the positive speed limit 4 of the positioner. Value description: 0: Digital setting - o17-46 Others: K connector Note:								

	Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-46	Digital setting 4 of positioner positive speed limit	5769	0-600	100	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines digital setting 4 of positioner positive speed limit. Note: This parameter is valid when o17-45 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-47	Positioner REV speed limit 4	5773	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Digital setting 1: Positive speed limit inverted Others: K connector								
	Description: Defines the negative speed limit 4 of the positioner. Value description: 0: Digital setting - o17-48 1: Positive speed limit inverted - Equal to the inverted value of o17-45 Others: K connector Note: Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-48	Digital setting 4 of positioner negative speed limit	5777	-600 to 0	-100	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

	Description: Defines digital setting 4 of positioner negative speed limit. Note: This parameter is valid when o17-47 is set to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-49	Position completion waiting time 1	5778	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines position completion waiting time 1. Note: The waiting time for positioning completion refers to the interval for starting the next section of positioning after the completion of positioning once in sequence or a single execution of loop operation. During waiting, the flag bit of U2-06 (Waiting for positioning completion) will be set. After the waiting time elapses, the flag bit of U2-06 (waiting for positioning completion) will be cleared and the flag bit of U20-04 (Positioning completion) will be set. Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-50	Position completion waiting time 2	5779	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines position completion waiting time 2. Note: The waiting time for positioning completion refers to the interval for starting the next section of positioning after the completion of positioning once in sequence or a single execution of loop operation. During waiting, the flag bit of U2-06 (Waiting for positioning completion) will be set. After the waiting time elapses, the flag bit of U2-06 (waiting for positioning completion) will be cleared and the flag bit of U20-04 (Positioning completion) will be set. Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-51	Position completion waiting time 3	5780	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time

	Description: Defines position completion waiting time 3. Note: The waiting time for positioning completion refers to the interval for starting the next section of positioning after the completion of positioning once in sequence or a single execution of loop operation. During waiting, the flag bit of U2-06 (Waiting for positioning completion) will be set. After the waiting time elapses, the flag bit of U2-06 (waiting for positioning completion) will be cleared and the flag bit of U20-04 (Positioning completion) will be set. Configure through o17-03 and o18-23 to o18-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-52	Position completion waiting time 4	5781	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines position completion waiting time 4. Note: The waiting time for positioning completion refers to the interval for starting the next section of positioning after the completion of positioning once in sequence or a single execution of loop operation. During waiting, the flag bit of U2-06 (Waiting for positioning completion) will be set. After the waiting time elapses, the flag bit of U2-06 (waiting for positioning completion) will be cleared and the flag bit of U20-04 (Positioning completion) will be set. Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-53	Filter time 1 of positioner command output	5782	0.00-1.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines filter time 1 of positioner command output. Note: Used to filter the position references. Longer filter time means a smoother curve but longer execution time. Configure through o17-03 and o18-23 to o18-85.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-	Filter time 2 of	5783	0.00-1.00	0.00	Unsigned	0.01	Real time	General	Effective

54	positioner command output				16 bit		changes	user	in real time
	Description: Defines filter time 2 of positioner command output. Note: Used to filter the position references. Longer filter time means a smoother curve but longer execution time. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-55	Filter time 3 of positioner command output	5784	0.00-1.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines filter time 3 of positioner command output. Note: Used to filter the position references. Longer filter time means a smoother curve but longer execution time. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-56	Filter time 4 of positioner command output	5785	0.00-1.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines filter time 4 of positioner command output. Note: Used to filter the position references. Longer filter time means a smoother curve but longer execution time. Configure through o17-03 and o18-23 to o18-85.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-57	Interrupt positioning	5786	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	signal source								time

Value:

0: Invalid	4: DI3	8: DIL
1: Reserved	5: DI4	9: HDI1
2: DI1	6: DI5	10: HDI2
3: DI2	7: DI6	Others: B connector

Description:

Defines the interrupt positioning signal source.

Value description:

0: Invalid

1: Valid: The interrupt positioning reference is triggered once upon the rising edge.

Others: B connector

Note:

With the position control enabled, after the positioning interrupt command is triggered, the current operation state is interrupted (regardless of whether the current state is waiting for positioning or positioning in progress) and the position reference set by o17-59 will be executed. The property of this command is configured by o17-59.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-58	Interrupt positioning property setting	5787	Refer to "Value"	10000	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion

Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the interrupt positioning property, which is used for configuring the property of o17-59.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-59	Position reference source for interrupt	5788	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	positioning								
	Value： 0： Position reference in interrupt positioning Others： K connector								
	Description： Defines the position command source for interrupt positioning. Value description: 0: Position reference in interrupt positioning - Set by o17-60 Others: K connector Note: With the position control enabled, after the positioning interrupt command is triggered, the current operation state is interrupted (regardless of whether the current state is waiting for positioning or positioning in progress) and the position reference set by o17-59 will be executed. The property of this command is configured by o17-59.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-60	Position reference in interrupt positioning	5789	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description： Defines the position reference in interrupt positioning. Note: This parameter is valid when o17-59 is set to 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-61	Software position limit selection	5791	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Inhibited 1： Enabled Others： B connector								
	Description： Defines whether to enable software position limit.								

	Note: When the home is confirmed to be valid, the system compares the real-time position feedback of the controller with the limit and takes corresponding actions (defined by L13-06) if the actual position exceeds the limit. The prerequisite for using soft limit is that homing has been performed. The limit is set by o17-62 and o17-63.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-62	Forward position of software position limit	5792	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Shutdown change	General user	Effective in real time
	Description: Defines the forward position of software position limit. Note: When the home is confirmed to be valid, the system compares the real-time position feedback of the controller with the limit and takes corresponding actions (defined by L13-06) if the actual position exceeds the limit. The prerequisite for using soft limit is that homing has been performed. The limit is set by o17-62 and o17-63. If this position is exceeded, the software position limit state is activated, and the alarm A189-3 (Positive software position limit activated) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-63	Negative position of software position limit	5794	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Shutdown change	General user	Effective in real time
	Description: Defines the negative position of software position limit. Note: When the home is confirmed to be valid, the system compares the real-time position feedback of the controller with the limit and takes corresponding actions (defined by L13-06) if the actual position exceeds the limit. The prerequisite for using soft limit is that homing has been performed. The limit is set by o17-62 and o17-63. If this position is exceeded, the software position limit state is activated, and the alarm A189-4 (Negative software limit activated) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o17-66	Threshold of proximity during positioning	5996	0-2147483647	500	Unsigned 32	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of proximity during positioning. Note: When the distance between the current actual position and the target position keeps lower than this threshold for a period longer than o17-67, proximity signal is activated. The flag bit of proximity can be viewed through U20-18 to help the host controller take the next action.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o17-67	Judgment time of proximity	5998	0-60000	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the judgment time of proximity. Note: When the distance between the current actual position and the target position keeps lower than this threshold for a period longer than o17-67, proximity signal is activated. The flag bit of proximity can be viewed through U20-18 to help the host controller take the next action.								

o18 Multi-position reference

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-00	Current reference of multi-position reference	36057	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Cannot be changed	General user	Effective in real time
	Description: Displays current reference value of multi-position reference.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-01	Current position reference segment	36059	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Defines current position reference segment.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-02	Multi-position operation mode	6030	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Fixed [Digital setting of multi-segment position instruction] 1: Switched among multi-position references 2: Individual operation in sequence 3: Cyclic operation								
	Description: Defines the multi-position operation mode. Value description: 0: Fixed [Digital setting of multi-position reference] - Set by o18-03 1: Switched among multi-position references - Set by o18-17 to o18-21 2: Individual operation in sequence - Operating once according to o18-04 to o18-05 3: Cyclic operation - Operating cyclically according to o18-04 and o18-05								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-03	Digital setting of multi-position reference	6031	1-32	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of multi-position reference. Note: This parameter is used to select multi-position 1 to multi-position 32 of o18-22 to o18-85. It is valid when o18-02 is set to 0.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
o18-04	Start segment of multi-position reference	6032	1-32	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the start segment of multi-position reference. Note: This parameter is used to select multi-position 1 to multi-position 32 of o18-22 to o18-85. It is valid when o18-02 is set to 2 and 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-05	End segment of multi-position reference	6033	1-32	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the end segment of multi-position reference. Note: This parameter is used to select multi-position 1 to multi-position 32 of o18-22 to o18-85. It is valid when o18-02 is set to 2 and 3. The end segment must be higher than the start segment defined by o18-04. Otherwise, only the start segment is valid.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-06	Recovery of multi-position operation	6034	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Continue to run the unfinished segments 1: Start from the start segment								
	Description: Defines the recovery mode of multi-position operation.								

	Value description: 0: Continue to run the unfinished segments - Continue to run according to the current reference segment upon restart 1: Start from the start segment - Restart from the start segment upon restart Note: This parameter is valid when o18-02 is set to 2 and 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-17	Multi-position selection input 1	6035	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines multi-position selection input 1. Note: o18-17 to o18-21 correspond to bit0 to bit4 of multi-position selection. Multi-position values 0 to 31 correspond to multi-position references 1 to 32 of o18-22 to o18-85. This parameter is valid when o18-02 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-18	Multi-position selection input 2	6036	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines multi-position selection input 2. Note: o18-17 to o18-21 correspond to bit0 to bit4 of multi-position selection. Multi-position values 0 to 31 correspond to multi-position references 1 to 32 of o18-22 to o18-85. This parameter is valid when o18-02 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-19	Multi-position selection input 3	6037	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines multi-position selection input 3. Note: o18-17 to o18-21 correspond to bit0 to bit4 of multi-position selection. Multi-position values 0 to 31 correspond to multi-position references 1 to 32 of o18-22 to o18-85. This parameter is valid when o18-02 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-20	Multi-position selection input 4	6038	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines multi-position selection input 4. Note: o18-17 to o18-21 correspond to bit0 to bit4 of multi-position selection. Multi-position values 0 to 31 correspond to multi-position references 1 to 32 of o18-22 to o18-85. This parameter is valid when o18-02 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-21	Multi-position selection	6039	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	input 5								
	Value: 0: Invalid 1: Valid Others: B connector								
	Description: Defines multi-position selection input 5. Note: o18-17 to o18-21 correspond to bit0 to bit4 of multi-position selection. Multi-position values 0 to 31 correspond to multi-position references 1 to 32 of o18-22 to o18-85. This parameter is valid when o18-02 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-22	Multi-position 1 reference	6040	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 1 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-23.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-23	Multi-position 1 property	6104	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 1, which is used to configure the property of o18-22.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-24	Multi-position 2 reference	6042	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 2 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-25.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-25	Multi-position 2 property	6105	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 2, which is used to configure the property of o18-24. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-26	Multi-position 3 reference	6044	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 3 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-27.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-27	Multi-position 3 property	6106	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 3, which is used to configure the property of o18-26.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion
2: Waiting time 2 for positioning completion
3: Waiting time 3 for positioning completion
4: Waiting time 4 for positioning completion
Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.
0: No filter
1: Filter time 1
2: Filter time 2
3: Filter time 3
4: Filter time 4
Ten thousands-: Travel type
0: Absolute
1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-28	Multi-position 4 reference	6046	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:
Used to set multi-position 4 reference.

Note:
Select through o18-02 to o18-21. The property is configured by o18-29.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-29	Multi-position 4 property	6107	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 4, which is used to configure the property of o18-28.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-30	Multi-position 5 reference	6048	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 5 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-31.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-31	Multi-position 5 property	6108	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 5, which is used to configure the property of o18-30. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-32	Multi-position 6 reference	6050	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 6 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-33.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-33	Multi-position 6 property	6109	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 6, which is used to configure the property of o18-32.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

	1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-34	Multi-position 7 reference	6052	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 7 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-35.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-35	Multi-position 7 property	6110	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 7, which is used to configure the property of o18-34.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-36	Multi-position 8 reference	6054	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 8 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-37.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-37	Multi-position 8 property	6111	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 8, which is used to configure the property of o18-36. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-38	Multi-position 9 reference	6056	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 9 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-39.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-39	Multi-position 9 property	6112	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 9, which is used to configure the property of o18-38.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

	1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-40	Multi-position 10 reference	6058	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 10 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-41.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-41	Multi-position 10 property	6113	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 10, which is used to configure the property of o18-40.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-42	Multi-position 11 reference	6060	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 11 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-43.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-43	Multi-position 11 property	6114	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 11, which is used to configure the property of o18-42. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-44	Multi-position 12 reference	6062	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 12 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-45.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-45	Multi-position 12 property	6115	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 12, which is used to configure the property of o18-44.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

	1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-46	Multi-position 13 reference	6064	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 13 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-47.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-47	Multi-position 13 property	6116	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 13, which is used to configure the property of o18-46.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-48	Multi-position 14 reference	6066	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 14 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-49.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-49	Multi-position 14 property	6117	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 14, which is used to configure the property of o18-48. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-50	Multi-position 15 reference	6068	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 15 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-51.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-51	Multi-position 15 property	6118	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 15, which is used to configure the property of o18-50.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

	1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-52	Multi-position 16 reference	6070	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 16 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-53.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-53	Multi-position 16 property	6119	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 16, which is used to configure the property of o18-52.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-54	Multi-position 17 reference	6072	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 17 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-55.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-55	Multi-position 17 property	6120	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 17, which is used to configure the property of o18-54. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-56	Multi-position 18 reference	6074	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 18 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-57.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-57	Multi-position 18 property	6121	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 18, which is used to configure the property of o18-56.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion
2: Waiting time 2 for positioning completion
3: Waiting time 3 for positioning completion
4: Waiting time 4 for positioning completion
Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.
0: No filter
1: Filter time 1
2: Filter time 2
3: Filter time 3
4: Filter time 4
Ten thousands-: Travel type
0: Absolute
1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-58	Multi-position 19 reference	6076	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:
Used to set multi-position 19 reference.

Note:
Select through o18-02 to o18-21. The property is configured by o18-59.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-59	Multi-position 19 property	6122	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 19, which is used to configure the property of o18-58.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-60	Multi-position 20 reference	6078	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 20 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-61.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-61	Multi-position 20 property	6123	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 20, which is used to configure the property of o18-60. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-62	Multi-position 21 reference	6080	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 21 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-63.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-63	Multi-position 21 property	6124	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 21, which is used to configure the property of o18-62.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

	1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-64	Multi-position 22 reference	6082	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 22 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-65.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-65	Multi-position 22 property	6125	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 22, which is used to configure the property of o18-64.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-66	Multi-position 23 reference	6084	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 23 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-67.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-67	Multi-position 23 property	6126	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 23, which is used to configure the property of o18-66. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-68	Multi-position 24 reference	6086	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 24 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-69.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-69	Multi-position 24 property	6127	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 24, which is used to configure the property of o18-68.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion
2: Waiting time 2 for positioning completion
3: Waiting time 3 for positioning completion
4: Waiting time 4 for positioning completion
Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.
0: No filter
1: Filter time 1
2: Filter time 2
3: Filter time 3
4: Filter time 4
Ten thousands-: Travel type
0: Absolute
1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-70	Multi-position 25 reference	6088	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:
Used to set multi-position 25 reference.

Note:
Select through o18-02 to o18-21. The property is configured by o18-71.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-71	Multi-position 25 property	6128	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 25, which is used to configure the property of o18-70.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-72	Multi-position 26 reference	6090	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 26 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-73.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-73	Multi-position 26 property	6129	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 26, which is used to configure the property of o18-72. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-74	Multi-position 27 reference	6092	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 27 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-75.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-75	Multi-position 27 property	6130	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 27, which is used to configure the property of o18-74.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion
2: Waiting time 2 for positioning completion
3: Waiting time 3 for positioning completion
4: Waiting time 4 for positioning completion
Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.
0: No filter
1: Filter time 1
2: Filter time 2
3: Filter time 3
4: Filter time 4
Ten thousands-: Travel type
0: Absolute
1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-76	Multi-position 28 reference	6094	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:
Used to set multi-position 28 reference.

Note:
Select through o18-02 to o18-21. The property is configured by o18-77.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-77	Multi-position 28 property	6131	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 28, which is used to configure the property of o18-76.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-78	Multi-position 29 reference	6096	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 29 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-79.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-79	Multi-position 29 property	6132	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 29, which is used to configure the property of o18-78. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-80	Multi-position 30 reference	6098	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 30 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-81.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

o18-81	Multi-position 30 property	6133	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

Defines the property of multi-position 30, which is used to configure the property of o18-80.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

	1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-82	Multi-position 31 reference	6100	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set multi-position 31 reference. Note: Select through o18-02 to o18-21. The property is configured by o18-83.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-83	Multi-position 31 property	6134	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4

Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description：

Defines the property of multi-position 31, which is used to configure the property of o18-82.

Value description:

Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32.

0: Positioner acceleration/deceleration time 1

1: Positioner acceleration/deceleration time 2

2: Positioner acceleration/deceleration time 3

3: Positioner acceleration/deceleration time 4

Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48.

0: Positioner positive/negative speed limit 1

1: Positioner positive/negative speed limit 2

2: Positioner positive/negative speed limit 3

3: Positioner positive/negative speed limit 4

Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52.

0: No waiting

1: Waiting time 1 for positioning completion

2: Waiting time 2 for positioning completion

3: Waiting time 3 for positioning completion

4: Waiting time 4 for positioning completion

Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56.

0: No filter

1: Filter time 1

2: Filter time 2

3: Filter time 3

4: Filter time 4

Ten thousands-: Travel type

0: Absolute

1: Incremental

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-84	Multi-position 32 reference	6102	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

Description:

Used to set multi-position 32 reference.

Note:

Select through o18-02 to o18-21. The property is configured by o18-85.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o18-85	Multi-position 32 property	6135	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
Ones-	Acceleration and deceleration time	0: Positioner acceleration and deceleration time 1 1: Positioner acceleration and deceleration time 2 2: Positioner acceleration and deceleration time 3 3: Positioner acceleration and deceleration time 4
Tens-	Positive and negative speed limits	0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4
Hundreds-	Waiting time for positioning completion	0: No waiting time 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion
Thousands-	Positioner command output filter time	0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4
Ten thousands-	Travel type	0: Absolute 1: Incremental

Description:

	Defines the property of multi-position 32, which is used to configure the property of o18-84. Value description: Ones-: Acceleration/Deceleration time - Corresponds to o17-25 to o17-32. 0: Positioner acceleration/deceleration time 1 1: Positioner acceleration/deceleration time 2 2: Positioner acceleration/deceleration time 3 3: Positioner acceleration/deceleration time 4 Tens-: Positive/Negative speed limit - Corresponds to o17-33 to o17-48. 0: Positioner positive/negative speed limit 1 1: Positioner positive/negative speed limit 2 2: Positioner positive/negative speed limit 3 3: Positioner positive/negative speed limit 4 Hundreds-: Waiting time for positioning completion - Corresponds to o17-49 to o17-52. 0: No waiting 1: Waiting time 1 for positioning completion 2: Waiting time 2 for positioning completion 3: Waiting time 3 for positioning completion 4: Waiting time 4 for positioning completion Thousands-: Filter time of positioner command output - Corresponds to o17-53 to o17-56. 0: No filter 1: Filter time 1 2: Filter time 2 3: Filter time 3 4: Filter time 4 Ten thousands-: Travel type 0: Absolute 1: Incremental

o19 Homing

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-00	Homing trigger mode	5798	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Triggered upon activation command 1: Automatically triggered upon positioning start when the home is absent								
	Description: Defines the mode for triggering homing.								

	Value description: 0: Triggered upon activation command - Triggered by o19-01. 1: Automatically triggered upon positioning start when the home is absent - Triggered automatically upon start of positioning Note: After the drive is powered on again, execute homing before positioning starts to redefine the home. Otherwise, when the positioning start command is triggered, o17-00 (Positioner activation status) will display "5 Home invalid". The homing type is set by o19-03.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-01	Homing activation command source	5804	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the homing activation command source. Note: This parameter is valid when o19-00 is set to 0. The homing defined by o19-03 is triggered once upon the rising edge of the activation command source.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-02	Homing direction	5803	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Forward 1: Reverse Others: B connector								
	Description: Defines the homing direction.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-03	Homing type	5799	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value： 0： Current position as reference point 1： Current position as reference point (position control needs not be enabled) 2： Proximity switch 1 as reference point 3： Proximity switch 2 as reference point								
	Description： Defines the homing type. Value description: 0: Current position as reference point - The motor does not rotate regardless of the current position, as long as the homing command is triggered. The current position is used as the home. The source of the current position is set by o19-03. 1: Current position as reference point (position control needs not be enabled) - Same as option 0 2: Proximity switch 1 as reference point - The motor runs and returns to the home. The proximity switch 1 signal is set by o19-06. 3: Proximity switch 2 as reference point - The motor runs and returns to the home. The proximity switch 2 signal is set by o19-10. Note: When 2 and 3 are selected, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-04	Source of current position value	5800	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Digital setting 1： Current absolute position Others： K connector								
	Description： Defines the source of current position value. Value description: 0: Digital setting - Set by o19-05 1: Current absolute position - U29-00 [Current absolute position] as the source Others: K connector Note: This parameter is valid when o19-03 is set to 0 and 1.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
o19-05	Digital setting of current position	5801	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Defines the digital setting of current position. Note: This parameter is valid when o19-04 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-06	Proximity switch 1 signal source	5805	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the signal source of proximity switch 1. Note: When o19-03 is set to 2 and 3, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13. The effective mode is set by o19-07, and the transmission delay is set by o19-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-07	Signal activation mode of proximity switch 1	5838	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Rising edge-triggered 1: Falling edge-triggered 2: Edge signal-triggered								
	Description: Defines the signal activation mode of proximity switch 1.								

	Note: When o19-03 is set to 2 and 3, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13. The effective mode is set by o19-07, and the transmission delay is set by o19-08.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-08	Transmission delay of proximity switch 1 signal source	6012	0-128	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the transmission delay of proximity switch 1 signal source. Note: Set this parameter according to the actual operating conditions.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-09	Proximity switch 1 position setting	5840	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Used to set the position of proximity switch 1. Note: When o19-03 is set to 2 and 3, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13. The effective mode is set by o19-07, and the transmission delay is set by o19-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-10	Proximity switch 2 signal source	5806	Refer to "Value"	0	Unsigned 16 bit	1	Shutdown change	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description:								

	Defines the signal source of proximity switch 2. Note: When o19-03 is set to 2 and 3, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13. The effective mode is set by o19-07, and the transmission delay is set by o19-08.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-11	Proximity switch 2 signal validity	5839	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Rising edge-triggered 1： Falling edge-triggered 2： Edge signal-triggered								
	Description： Defines the signal activation mode of proximity switch 1. Note: When o19-03 is set to 2 and 3, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13. The effective mode is set by o19-07, and the transmission delay is set by o19-08.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-12	Transmission delay of proximity switch 2 signal source	6013	0-128	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the transmission delay of proximity switch 1 signal source. Note: Set this parameter according to the actual operating conditions.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-13	Proximity switch 2 position setpoint	5842	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time

	Description： Used to set the position of proximity switch 1. Note: When o19-03 is set to 2 and 3, the motor moves in the direction set by o19-02 and follows the speed curve set by o19-15 to o19-18. Finally, the motor stops at the position when the proximity switch signal is triggered and change the current absolute position to the position set by o19-09 or o19-13. The effective mode is set by o19-07, and the transmission delay is set by o19-08.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-15	Homing speed reference	5808	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Parameter Others： K connector								
	Description： Defines the speed reference during homing. Value description: 0: Digital setting - Set by o19-16 Other: K connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-16	Digital setting of homing speed	5809	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description： Defines the digital setting value of homing speed. Note: This parameter is valid when o19-15 is set to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-17	Homing acceleration time	5810	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the homing acceleration time. Note: The acceleration time is the time required for the motor to accelerate from 0 to 100%.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-18	Homing deceleration time	5811	0.00-600.00	10.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the deceleration time during homing. Note: The deceleration time is the time required for the motor to decelerate from 100% to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-19	Home offset setting (relative to reference point)	5812	-2147483648 Uu to +2147483647 Uu	0	Signed 32	1	Real time changes	General user	Effective in real time
	Description: Defines the home offset (relative to reference point). Note: The offset is superimposed on the position reference during homing.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-20	Source of home clear signal	5814	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid 1: Reserved 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines the source of the home clear signal. Note: The home is cleared once upon the rising edge. Homing needs to be performed again after the home is cleared.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-21	Home searching timeout time	5815	0.0-6000.0	60.0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the home searching timeout time. Note: When the homing execution time exceeds this setpoint, F187-2 (Home searching timeout) is reported.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-22	Position correction activation	5816	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled Others: B connector								
	Description: Defines whether position correction is activated. Note: When enabled, position correction is triggered once when passing the home switch. The actual position compensation value is limited by o19-23 and o19-24, and processed by the linear change time of o19-25. This parameter is active when o19-03 is set to 2 or 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-23	Minimum value of position deviation correction	5817	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the minimum value of position deviation correction. Note: When enabled, position correction is triggered once when passing the home switch. The actual position compensation value is limited by o19-23 and o19-24, and processed by the linear change time of o19-25. This parameter is active when o19-03 is set to 2 or 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-24	Maximum value of position deviation correction	5818	0-65535	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the maximum value of position deviation correction.								

	Note: When enabled, position correction is triggered once when passing the home switch. The actual position compensation value is limited by o19-23 and o19-24, and processed by the linear change time of o19-25. This parameter is active when o19-03 is set to 2 or 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-25	Position correction linear change time	5844	0-65000	10	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the position correction linear change time. Note: When enabled, position correction is triggered once when passing the home switch. The actual position compensation value is limited by o19-23 and o19-24, and processed by the linear change time of o19-25. This parameter is active when o19-03 is set to 2 or 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-26	Threshold of reference point loss events	5819	0-1000	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the threshold of reference point loss events. Note: When the motor pass 1/2 position value of the home switch ± o19-27 (Position deviation threshold for reference point loss) but does not receive any proximity switch signal, the reference point is lost. When the number of loss events is higher than or equal to o19-26, A188-4/188-5 (Proximity switch 1/2 lost) is reported.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-27	Position deviation threshold for reference point loss	5807	0-65535	100	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the position deviation threshold for reference point loss. Note: When the motor pass 1/2 position value of the home switch ± o19-27 (Position deviation threshold for reference point loss) but does not receive any proximity switch signal, the reference point is lost. When the number of loss events is higher								

	than or equal to o19-26, A188-4/188-5 (Proximity switch 1/2 lost) is reported.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
o19-28	Retention of home upon power failure	5820	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
	Description: Defines whether the home position is recorded upon power failure. Note: Enable this function to record the current absolute position value when power failure occurs. After the AC drive is powered on again, the AC drive directly reads the absolute position value recorded at the last power failure to ensure that the home is valid. Note that the mechanical devices cannot be moved upon power failure to avoid position deviation.								

P0 Custom conversion function block

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-00	Execution sequence of word-to-bit module 1	3939	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of word-to-bit module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-01	Input of word-to-bit module 1	4239	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of word-to-bit module 1.								

	Note: When the input source of word-to-bit module 1 is a single-word connector, the output U10-00 to U10-15 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U10-00 to U10-15 correspond to the input bit0 to bit15 of the high 16 bits.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-02	Execution sequence of word-to-bit module 2	3940	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of word-to-bit module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-03	Input of word-to-bit module 2	4240	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of word-to-bit module 2. Note: When the input source of word-to-bit module 1 is a single-word connector, the output U10-16 to U10-31 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U10-16 to U10-31 correspond to the input bit0 to bit15 of the high 16 bits.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-04	Execution sequence of word-to-bit module 3	3941	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of word-to-bit module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P0-05	Input of word-to-bit module 3	4241	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input of word-to-bit module 3. Note: When the input source of word-to-bit module 1 is a single-word connector, the output U10-32 to U10-47 correspond to the input bit0 to bit15. When the input source is a double-word connector, the output U10-32 to U10-47 correspond to the input bit0 to bit15 of the high 16 bits.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-06	Execution sequence of bit-to-word module 1	3942	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of bit-to-word module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-07	bit0 selection of bit-to-word module 1	4242	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit0 of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P0-08	bit1 selection of bit-to-word module 1	4243	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit1 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-09	bit2 selection of bit-to-word module 1	4244	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit2 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-10	bit3 selection of bit-to-word module 1	4245	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit3 selection of bit-to-word module 1.								

	Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-11	bit4 selection of bit-to-word module 1	4246	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit4 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-12	bit5 selection of bit-to-word module 1	4247	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit5 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-13	bit6 selection of bit-to-word	4248	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	module 1								time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit6 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-14	bit7 selection of bit-to-word module 1	4249	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit7 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-15	bit8 selection of bit-to-word module 1	4250	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit8 selection of bit-to-word module 1. Note:								

	P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-16	bit9 selection of bit-to-word module 1	4251	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit9 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-17	bit10 selection of bit-to-word module 1	4252	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit10 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-18	bit11 selection of bit-to-word module 1	4253	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines bit11 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-19	bit12 selection of bit-to-word module 1	4254	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit12 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-20	bit13 selection of bit-to-word module 1	4255	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit13 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-21	bit14 selection of bit-to-word module 1	4256	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit14 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-22	bit15 selection of bit-to-word module 1	4257	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit15 selection of bit-to-word module 1. Note: P0-07 (bit0 selection of bit-to-word module 1) to P0-22 (bit15 selection of bit-to-word module 1) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 1 (U15-00).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-23	Execution sequence of bit-to-word module 2	3943	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of bit-to-word module 2.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P0-24	bit00 selection of bit-to-word module 2	4258	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit00 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-25	bit01 selection of bit-to-word module 2	4259	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit01 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-26	bit02 selection of bit-to-word module 2	4260	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description:								

	Defines bit02 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-27	bit03 selection of bit-to-word module 2	4261	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit03 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-28	bit04 selection of bit-to-word module 2	4262	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit04 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-29	bit05 selection of bit-to-word	4263	Refer to	0	Unsigned	1	Real time	General	Effective in real

	module 2		"Value"		16 bit		changes	user	time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit05 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-30	bit06 selection of bit-to-word module 2	4264	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit06 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-31	bit07 selection of bit-to-word module 2	4265	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit07。 selection of bit-to-word module 2. Note:								

	P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-32	bit08 selection of bit-to-word module 2	4266	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit08 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-33	bit09 selection of bit-to-word module 2	4267	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit09 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-34	bit10 selection of bit-to-word module 2	4268	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines bit10 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-35	bit11 selection of bit-to-word module 2	4269	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit11 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-36	bit12 selection of bit-to-word module 2	4270	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit12 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-37	bit13 selection of bit-to-word module 2	4271	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit13 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-38	bit14 selection of bit-to-word module 2	4272	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit14 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-39	bit15 selection of bit-to-word module 2	4273	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								

	Description: Defines bit15 selection of bit-to-word module 2. Note: P0-24 (bit0 selection of bit-to-word module 2) to P0-39 (bit15 selection of bit-to-word module 2) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 2 (U15-01).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-40	Execution sequence of bit-to-word module 3	3944	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of bit-to-word module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-41	bit00 selection of bit-to-word module 3	4274	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit00 selection of bit-to-word module 3. Note: Bit-to-word module 3 can select bit-to-word module 3-bit0 (P0-41) to bit-to-word module 3-bit15 (P0-56) to form a 16-bit data from low to high bits, which can be monitored through custom bit-to-word module 3 output (U15-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-42	bit01 selection of bit-to-word module 3	4275	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description:								

	Defines bit01 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-43	bit02 selection of bit-to-word module 3	4276	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value: 0: Invalid Others: B connector
Description: Defines bit02 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-44	bit03 selection of bit-to-word module 3	4277	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value: 0: Invalid Others: B connector
Description: Defines bit03 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-45	bit04 selection of bit-to-word	4278	Refer to	0	Unsigned	1	Real time	General	Effective in real

	module 3		"Value"		16 bit		changes	user	time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit04 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-46	bit05 selection of bit-to-word module 3	4279	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit05 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-47	bit06 selection of bit-to-word module 3	4280	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit06 selection of bit-to-word module 3. Note:								

	P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-48	bit07 selection of bit-to-word module 3	4281	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit07。 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-49	bit08 selection of bit-to-word module 3	4282	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit08 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-50	bit09 selection of bit-to-word module 3	4283	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines bit09 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-51	bit10 selection of bit-to-word module 3	4284	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit10 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-52	bit11 selection of bit-to-word module 3	4285	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit11 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-53	bit12 selection of bit-to-word module 3	4286	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit12 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-54	bit13 selection of bit-to-word module 3	4287	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit13 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-55	bit14 selection of bit-to-word module 3	4288	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								

	Description： Defines bit14 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-56	bit15 selection of bit-to-word module 3	4289	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines bit15 selection of bit-to-word module 3. Note: P0-41 (bit0 selection of bit-to-word module 3) to P0-56 (bit15 selection of bit-to-word module 3) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 3 (U15-02).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-57	Execution sequence of bit-to-word module 4	3945	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of bit-to-word module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-58	bit00 selection of bit-to-word module 4	4290	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description：								

	Defines bit00 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-59	bit01 selection of bit-to-word module 4	4291	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit01 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-60	bit02 selection of bit-to-word module 4	4292	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit02 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-61	bit03 selection of bit-to-word	4293	Refer to	0	Unsigned	1	Real time	General	Effective in real

	module 4		"Value"		16 bit		changes	user	time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit03 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-62	bit04 selection of bit-to-word module 4	4294	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit04 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-63	bit05 selection of bit-to-word module 4	4295	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit05 selection of bit-to-word module 4. Note:								

	P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-64	bit06 selection of bit-to-word module 4	4296	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit06 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-65	bit07 selection of bit-to-word module 4	4297	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit07。 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-66	bit08 selection of bit-to-word module 4	4298	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines bit08 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-67	bit09 selection of bit-to-word module 4	4299	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit09 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-68	bit10 selection of bit-to-word module 4	4300	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines bit10 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-69	bit11 selection of bit-to-word module 4	4301	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit11 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-70	bit12 selection of bit-to-word module 4	4302	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines bit12 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-71	bit13 selection of bit-to-word module 4	4303	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								

	Description： Defines bit13 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-72	bit14 selection of bit-to-word module 4	4304	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines bit14 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-73	bit15 selection of bit-to-word module 4	4305	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines bit15 selection of bit-to-word module 4. Note: P0-58 (bit0 selection of bit-to-word module 4) to P0-73 (bit15 selection of bit-to-word module 4) form a 16-bit data from low to high bits, which can be monitored through the output of custom bit-to-word module 4 (U15-03).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P0-74	Base value coefficient for Word-to-Double word module	4226	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Word-to-double word 1	0: x 65536 1: x 1
bit1	Word-to-Double word 2	0: x 65536 1: x 1
bit2	Word-to-Double word 3	0: x 65536 1: x 1

Description:

Defines the base value coefficient for word-to-double word conversion.

Note:

The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3).

bit0 to bit2 correspond to word-to-double words 1 to 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-75	Execution sequence of word-to-double word module 1	4046	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Description:

Defines the execution sequence of word-to-double word module 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-76	High word of word-to-double word module 1	4622	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

0: Invalid

	Others： K connector
	Description： Defines the high word for word-to-double word 1. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 1 output (U19-00). When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-77	LOWORD of Word-to-Double word module 1	4623	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the low word of word-to-double word 1. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 1 output (U19-00). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-78	Base value of word-to-double word module 1	4624	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value of word-to-double word module 1. Note:								

	The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 1 output (U19-00).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-79	Execution sequence of word-to-double word module 2	4047	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of word-to-double word module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-80	High word of word-to-double word module 2	4625	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high word for word-to-double word 2. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 2 output (U19-01). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-81	LOWORD of Word-to-Double word module 2	4626	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： K connector
	Description： Defines the low word of word-to-double word 2. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 2 output (U19-01). When the input is double word, the high 16 bits are used.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-82	Base value of word-to-double word module 2	4627	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value of word-to-double word module 2. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 2 output (U19-01).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-83	Execution sequence of word-to-double word module 3	4048	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of word-to-double word module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P0-84	High word of word-to-double word module 3	4628	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the high word for word-to-double word 3. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 1 output (U19-02). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-85	LOWORD of Word-to-Double word module 3	4629	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the low word of word-to-double word 3. Note: The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 1 output (U19-02). When the input is double word, the high 16 bits are used.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-86	Base value of word-to-double	4630	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	word module 3								time

Description:

Defines the base value of word-to-double word module 3.

Note:

The output of the word-to-double word module is equal to the double word that takes high word input as high 16 bits and low word input as low 16 bits. After being converted by the base value (divided by the base value and multiplied by 4096 (When the base value is not 0, the output equals to the input directly without conversion by base value.)) and multiplied by the base value coefficient set by this parameter, the double word is finally outputted to U19-00 to U19-02 (word-to-double word 1 to 3). bit0 to bit2 correspond to word-to-double words 1 to 3. The output can be viewed through the custom word-to-double word module 1 output (U19-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-87	Base value coefficient for double word-to-word module	4227	Refer to "Value"	0x0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Double word-to-word 1	0: x 65536 1: x 1
bit1	Double word-to-word 2	0: x 65536 1: x 1
bit2	Double word-to-word 3	0: x 65536 1: x 1

Description:

Defines the base value coefficient for double word-to word conversion.

Note:

1. After being converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input without conversion by base value)), the input of the double word-to-word module is then being divided by the base value coefficient set by this parameter. The high 16 bits and low 16 bits are finally outputted to U15-04 to U15-09.
2. bit0 to bit2 correspond to double word-to-words 1 to 3.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-88	Execution sequence of	4049	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	double word-to-word module 1								time
	Description： Defines the execution sequence of double word-to-word module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-89	Double word-to-word module 1 selection	4631	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the data source of double word-to-word module 1. Note: The input of the double word-to-word module is converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input directly)), and then divided by the base value coefficient defined by this parameter. The final high 16 bits and low 16 bits are outputted to U15-04 to U15-09. The output can be monitored through U15-04 (High word of custom double word-to-word module 1 output) and U15-05 (Low word of custom double word-to-word module 1 output).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-90	Base value of double word-to-word module 1	4632	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value for double word-to-word 1 conversion. Note: The input of the double word-to-word module is converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input directly)), and then divided by the base value coefficient defined by this parameter. The final high 16 bits and low 16 bits are outputted to U15-04 to U15-09.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-91	Execution sequence of	4050	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	double word-to-word module 2								time
	Description： Defines the execution sequence of double word-to-word module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-92	Double word-to-word module 2 selection	4633	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the data source of double word-to-word module 2. Note: The input of the double word-to-word module is converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input directly)), and then divided by the base value coefficient defined by this parameter. The final high 16 bits and low 16 bits are outputted to U15-04 to U15-09. The output can be monitored through U15-06 (High word of custom double word-to-word module 2 output) and U15-07 (Low word of custom double word-to-word module 2 output).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-93	Base value of double word-to-word module 2	4634	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value for double word-to-word 1 conversion. Note: The input of the double word-to-word module is converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input directly)), and then divided by the base value coefficient defined by this parameter. The final high 16 bits and low 16 bits are outputted to U15-04 to U15-09.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-94	Execution sequence of	4051	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	double word-to-word module 3								time
	Description： Defines the execution sequence of double word-to-word module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-95	Double word-to-word module 3 selection	4635	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the data source of double word-to-word module 3. Note: The input of the double word-to-word module is converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input directly)), and then divided by the base value coefficient defined by this parameter. The final high 16 bits and low 16 bits are outputted to U15-04 to U15-09. The output can be monitored through U15-08 (High word of custom double word-to-word module 3 output) and U15-09 (Low word of custom double word-to-word module 3 output).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P0-96	Base value of double word-to-word module 3	4636	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the base value for double word-to-word 1 conversion. Note: The input of the double word-to-word module is converted by the base value (multiplied by the base value and divided by 4096 (when the base value is 0, the output equals to the input directly)), and then divided by the base value coefficient defined by this parameter. The final high 16 bits and low 16 bits are outputted to U15-04 to U15-09.								

P1 Custom logic function block 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-00	Execution sequence of logical AND module 1	3946	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-01	Input 1 of logical AND module 1	4306	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 1. Note: If the input 1 of input logical AND module 1 (P1-01), input 2 of input logical AND module 1 (P1-02), input 3 of input logical AND module 1 (P1-03), and input 4 of input logical AND module 1 (P1-04) are all set to 1, the output of custom logical AND module 1 (U10-48) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-02	Input 2 of logical AND module 1	4307	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 1. Note: If the input 1 of input logical AND module 1 (P1-01), input 2 of input logical AND module 1 (P1-02), input 3 of input logical AND module 1 (P1-03), and input 4 of input logical AND module 1 (P1-04) are all set to 1, the output of custom logical AND module 1 (U10-48) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-03	Input 3 of logical AND module 1	4308	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	1：Invalid Others：B connector
	Description： Defines input 3 of logical AND module 1. Note: If the input 1 of input logical AND module 1 (P1-01), input 2 of input logical AND module 1 (P1-02), input 3 of input logical AND module 1 (P1-03), and input 4 of input logical AND module 1 (P1-04) are all set to 1, the output of custom logical AND module 1 (U10-48) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-04	Input 4 of logical AND module 1	4309	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Invalid Others：B connector								
	Description： Defines input 4 of logical AND module 1. Note: If the input 1 of input logical AND module 1 (P1-01), input 2 of input logical AND module 1 (P1-02), input 3 of input logical AND module 1 (P1-03), and input 4 of input logical AND module 1 (P1-04) are all set to 1, the output of custom logical AND module 1 (U10-48) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-05	Execution sequence of logical AND module 2	3947	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of logical AND module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-06	Input 1 of logical AND module 2	4310	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Invalid Others：B connector								
	Description： Defines input 1 of logical AND module 2. Note:								

	If the input 1 of input logical AND module 2 (P1-06), input 2 of input logical AND module 2 (P1-07), input 3 of input logical AND module 2 (P1-08), and input 4 of input logical AND module 2 (P1-09) are all set to 1, the output of custom logical AND module 2 (U10-49) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-07	Input 2 of logical AND module 2	4311	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 2. Note: If the input 1 of input logical AND module 2 (P1-06), input 2 of input logical AND module 2 (P1-07), input 3 of input logical AND module 2 (P1-08), and input 4 of input logical AND module 2 (P1-09) are all set to 1, the output of custom logical AND module 2 (U10-49) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-08	Input 3 of logical AND module 2	4312	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 2. Note: If the input 1 of input logical AND module 2 (P1-06), input 2 of input logical AND module 2 (P1-07), input 3 of input logical AND module 2 (P1-08), and input 4 of input logical AND module 2 (P1-09) are all set to 1, the output of custom logical AND module 2 (U10-49) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-09	Input 4 of logical AND module 2	4313	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 2.								

	Note: If the input 1 of input logical AND module 2 (P1-06), input 2 of input logical AND module 2 (P1-07), input 3 of input logical AND module 2 (P1-08), and input 4 of input logical AND module 2 (P1-09) are all set to 1, the output of custom logical AND module 2 (U10-49) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-10	Execution sequence of logical AND module 3	3948	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-11	Input 1 of logical AND module 3	4314	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 3. Note: If the input 1 of input logical AND module 3 (P1-11), input 2 of input logical AND module 3 (P1-12), input 3 of input logical AND module 3 (P1-13), and input 4 of input logical AND module 3 (P1-14) are all set to 1, the output of custom logical AND module 3 (U10-50) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-12	Input 2 of logical AND module 3	4315	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 3. Note: If the input 1 of input logical AND module 3 (P1-11), input 2 of input logical AND module 3 (P1-12), input 3 of input logical AND module 3 (P1-13), and input 4 of input logical AND module 3 (P1-14) are all set to 1, the output of custom logical AND module 3 (U10-50) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P1-13	Input 3 of logical AND module 3	4316	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 3. Note: If the input 1 of input logical AND module 3 (P1-11), input 2 of input logical AND module 3 (P1-12), input 3 of input logical AND module 3 (P1-13), and input 4 of input logical AND module 3 (P1-14) are all set to 1, the output of custom logical AND module 3 (U10-50) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-14	Input 4 of logical AND module 3	4317	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 3. Note: If the input 1 of input logical AND module 3 (P1-11), input 2 of input logical AND module 3 (P1-12), input 3 of input logical AND module 3 (P1-13), and input 4 of input logical AND module 3 (P1-14) are all set to 1, the output of custom logical AND module 3 (U10-50) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-15	Execution sequence of logical AND module 4	3949	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-16	Input 1 of logical AND module 4	4318	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								

	Description: Defines input 1 of logical AND module 4. Note: If the input 1 of input logical AND module 4 (P1-16), input 2 of input logical AND module 4 (P1-17), input 3 of input logical AND module 4 (P1-18), and input 4 of input logical AND module 4 (P1-19) are all set to 1, the output of custom logical AND module 4 (U10-51) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-17	Input 2 of logical AND module 4	4319	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 4. Note: If the input 1 of input logical AND module 4 (P1-16), input 2 of input logical AND module 4 (P1-17), input 3 of input logical AND module 4 (P1-18), and input 4 of input logical AND module 4 (P1-19) are all set to 1, the output of custom logical AND module 4 (U10-51) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-18	Input 3 of logical AND module 4	4320	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 4. Note: If the input 1 of input logical AND module 4 (P1-16), input 2 of input logical AND module 4 (P1-17), input 3 of input logical AND module 4 (P1-18), and input 4 of input logical AND module 4 (P1-19) are all set to 1, the output of custom logical AND module 4 (U10-51) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-19	Input 4 of logical AND module 4	4321	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid								

	Others： B connector
	Description： Defines input 4 of logical AND module 4. Note: If the input 1 of input logical AND module 4 (P1-16), input 2 of input logical AND module 4 (P1-17), input 3 of input logical AND module 4 (P1-18), and input 4 of input logical AND module 4 (P1-19) are all set to 1, the output of custom logical AND module 4 (U10-51) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-20	Execution sequence of logical AND module 5	3950	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of logical AND module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-21	Input 1 of logical AND module 5	4322	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 1 of logical AND module 5. Note: If the input 1 of input logical AND module 5 (P1-21), input 2 of input logical AND module 5 (P1-22), input 3 of input logical AND module 5 (P1-23), and input 4 of input logical AND module 5 (P1-24) are all set to 1, the output of custom logical AND module 5 (U10-52) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-22	Input 2 of logical AND module 5	4323	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 2 of logical AND module 5. Note: If the input 1 of input logical AND module 5 (P1-21), input 2 of input logical AND module 5 (P1-22), input 3 of input logical								

	AND module 5 (P1-23), and input 4 of input logical AND module 5 (P1-24) are all set to 1, the output of custom logical AND module 5 (U10-52) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-23	Input 3 of logical AND module 5	4324	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 5. Note: If the input 1 of input logical AND module 5 (P1-21), input 2 of input logical AND module 5 (P1-22), input 3 of input logical AND module 5 (P1-23), and input 4 of input logical AND module 5 (P1-24) are all set to 1, the output of custom logical AND module 5 (U10-52) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-24	Input 4 of logical AND module 5	4325	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 5. Note: If the input 1 of input logical AND module 5 (P1-21), input 2 of input logical AND module 5 (P1-22), input 3 of input logical AND module 5 (P1-23), and input 4 of input logical AND module 5 (P1-24) are all set to 1, the output of custom logical AND module 5 (U10-52) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-25	Execution sequence of logical AND module 6	3951	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-26	Input 1 of logical	4326	Refer to	1	Unsigned	1	Real time	General	Effective in

	AND module 6		"Value"		16 bit		changes	user	real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 6. Note: If the input 1 of input logical AND module 6 (P1-26), input 2 of input logical AND module 6 (P1-27), input 3 of input logical AND module 6 (P1-28), and input 4 of input logical AND module 6 (P1-29) are all set to 1, the output of custom logical AND module 6 (U10-53) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-27	Input 2 of logical AND module 6	4327	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 6. Note: If the input 1 of input logical AND module 6 (P1-26), input 2 of input logical AND module 6 (P1-27), input 3 of input logical AND module 6 (P1-28), and input 4 of input logical AND module 6 (P1-29) are all set to 1, the output of custom logical AND module 6 (U10-53) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-28	Input 3 of logical AND module 6	4328	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 6. Note: If the input 1 of input logical AND module 6 (P1-26), input 2 of input logical AND module 6 (P1-27), input 3 of input logical AND module 6 (P1-28), and input 4 of input logical AND module 6 (P1-29) are all set to 1, the output of custom logical AND module 6 (U10-53) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P1-29	Input 4 of logical AND module 6	4329	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 6. Note: If the input 1 of input logical AND module 6 (P1-26), input 2 of input logical AND module 6 (P1-27), input 3 of input logical AND module 6 (P1-28), and input 4 of input logical AND module 6 (P1-29) are all set to 1, the output of custom logical AND module 6 (U10-53) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-30	Execution sequence of logical AND module 7	3952	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-31	Input 1 of logical AND module 7	4330	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 7. Note: If the input 1 of input logical AND module 7 (P1-31), input 2 of input logical AND module 7 (P1-32), input 3 of input logical AND module 7 (P1-33), and input 4 of input logical AND module 7 (P1-34) are all set to 1, the output of custom logical AND module 7 (U10-54) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-32	Input 2 of logical AND module 7	4331	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								

	Description： Defines input 2 of logical AND module 7. Note: If the input 1 of input logical AND module 7 (P1-31), input 2 of input logical AND module 7 (P1-32), input 3 of input logical AND module 7 (P1-33), and input 4 of input logical AND module 7 (P1-34) are all set to 1, the output of custom logical AND module 7 (U10-54) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-33	Input 3 of logical AND module 7	4332	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 3 of logical AND module 7. Note: If the input 1 of input logical AND module 7 (P1-31), input 2 of input logical AND module 7 (P1-32), input 3 of input logical AND module 7 (P1-33), and input 4 of input logical AND module 7 (P1-34) are all set to 1, the output of custom logical AND module 7 (U10-54) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-34	Input 4 of logical AND module 7	4333	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 4 of logical AND module 7. Note: If the input 1 of input logical AND module 7 (P1-31), input 2 of input logical AND module 7 (P1-32), input 3 of input logical AND module 7 (P1-33), and input 4 of input logical AND module 7 (P1-34) are all set to 1, the output of custom logical AND module 7 (U10-54) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-35	Execution sequence of logical AND module 8	3953	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description：								

	Defines the execution sequence of logical AND module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-36	Input 1 of logical AND module 8	4334	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 8. Note: If the input 1 of input logical AND module 8 (P1-36), input 2 of input logical AND module 8 (P1-37), input 3 of input logical AND module 8 (P1-38), and input 4 of input logical AND module 8 (P1-39) are all set to 1, the output of custom logical AND module 8 (U10-55) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-37	Input 2 of logical AND module 8	4335	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 8. Note: If the input 1 of input logical AND module 8 (P1-36), input 2 of input logical AND module 8 (P1-37), input 3 of input logical AND module 8 (P1-38), and input 4 of input logical AND module 8 (P1-39) are all set to 1, the output of custom logical AND module 8 (U10-55) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-38	Input 3 of logical AND module 8	4336	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 8. Note: If the input 1 of input logical AND module 8 (P1-36), input 2 of input logical AND module 8 (P1-37), input 3 of input logical								

	AND module 8 (P1-38), and input 4 of input logical AND module 8 (P1-39) are all set to 1, the output of custom logical AND module 8 (U10-55) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-39	Input 4 of logical AND module 8	4337	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 8. Note: If the input 1 of input logical AND module 8 (P1-36), input 2 of input logical AND module 8 (P1-37), input 3 of input logical AND module 8 (P1-38), and input 4 of input logical AND module 8 (P1-39) are all set to 1, the output of custom logical AND module 8 (U10-55) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-40	Execution sequence of logical AND module 9	3954	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 9.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-41	Input 1 of logical AND module 9	4338	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 9. Note: If the input 1 of input logical AND module 9 (P1-41), input 2 of input logical AND module 9 (P1-42), input 3 of input logical AND module 9 (P1-43), and input 4 of input logical AND module 9 (P1-44) are all set to 1, the output of custom logical AND module 9 (U10-56) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-42	Input 2 of logical	4339	Refer to	1	Unsigned	1	Real time	General	Effective in

	AND module 9		"Value"		16 bit		changes	user	real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 9. Note: If the input 1 of input logical AND module 9 (P1-41), input 2 of input logical AND module 9 (P1-42), input 3 of input logical AND module 9 (P1-43), and input 4 of input logical AND module 9 (P1-44) are all set to 1, the output of custom logical AND module 9 (U10-56) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-43	Input 3 of logical AND module 9	4340	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 9. Note: If the input 1 of input logical AND module 9 (P1-41), input 2 of input logical AND module 9 (P1-42), input 3 of input logical AND module 9 (P1-43), and input 4 of input logical AND module 9 (P1-44) are all set to 1, the output of custom logical AND module 9 (U10-56) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-44	Input 4 of logical AND module 9	4341	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 9. Note: If the input 1 of input logical AND module 9 (P1-41), input 2 of input logical AND module 9 (P1-42), input 3 of input logical AND module 9 (P1-43), and input 4 of input logical AND module 9 (P1-44) are all set to 1, the output of custom logical AND module 9 (U10-56) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P1-45	Execution sequence of logical AND module 10	3955	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 10.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-46	Input 1 of logical AND module 10	4342	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 10. Note: If the input 1 of input logical AND module 10 (P1-46), input 2 of input logical AND module 10 (P1-47), input 3 of input logical AND module 10 (P1-48), and input 4 of input logical AND module 10 (P1-49) are all set to 1, the output of custom logical AND module 10 (U10-57) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-47	Input 2 of logical AND module 10	4343	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 10. Note: If the input 1 of input logical AND module 10 (P1-46), input 2 of input logical AND module 10 (P1-47), input 3 of input logical AND module 10 (P1-48), and input 4 of input logical AND module 10 (P1-49) are all set to 1, the output of custom logical AND module 10 (U10-57) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-48	Input 3 of logical AND module 10	4344	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								

	Description: Defines input 3 of logical AND module 10. Note: If the input 1 of input logical AND module 10 (P1-46), input 2 of input logical AND module 10 (P1-47), input 3 of input logical AND module 10 (P1-48), and input 4 of input logical AND module 10 (P1-49) are all set to 1, the output of custom logical AND module 10 (U10-57) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-49	Input 4 of logical AND module 10	4345	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 10. Note: If the input 1 of input logical AND module 10 (P1-46), input 2 of input logical AND module 10 (P1-47), input 3 of input logical AND module 10 (P1-48), and input 4 of input logical AND module 10 (P1-49) are all set to 1, the output of custom logical AND module 10 (U10-57) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-50	Execution sequence of logical AND module 11	3956	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 11.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-51	Input 1 of logical AND module 11	4346	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 11. Note: If the input 1 of input logical AND module 11 (P1-51), input 2 of input logical AND module 11 (P1-52), input 3 of input logical AND module 11 (P1-53), and input 4 of input logical AND module 11 (P1-54) are all set to 1, the output of custom								

	logical AND module 11 (U10-58) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-52	Input 2 of logical AND module 11	4347	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 11. Note: If the input 1 of input logical AND module 11 (P1-51), input 2 of input logical AND module 11 (P1-52), input 3 of input logical AND module 11 (P1-53), and input 4 of input logical AND module 11 (P1-54) are all set to 1, the output of custom logical AND module 11 (U10-58) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-53	Input 3 of logical AND module 11	4348	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 11. Note: If the input 1 of input logical AND module 11 (P1-51), input 2 of input logical AND module 11 (P1-52), input 3 of input logical AND module 11 (P1-53), and input 4 of input logical AND module 11 (P1-54) are all set to 1, the output of custom logical AND module 11 (U10-58) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-54	Input 4 of logical AND module 11	4349	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 11. Note: If the input 1 of input logical AND module 11 (P1-51), input 2 of input logical AND module 11 (P1-52), input 3 of input								

	logical AND module 11 (P1-53), and input 4 of input logical AND module 11 (P1-54) are all set to 1, the output of custom logical AND module 11 (U10-58) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-55	Execution sequence of logical AND module 12	3957	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 12.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-56	Input 1 of logical AND module 12	4350	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 12. Note: If the input 1 of input logical AND module 12 (P1-56), input 2 of input logical AND module 12 (P1-57), input 3 of input logical AND module 12 (P1-58), and input 4 of input logical AND module 12 (P1-59) are all set to 1, the output of custom logical AND module 12 (U10-59) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-57	Input 2 of logical AND module 12	4351	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 12. Note: If the input 1 of input logical AND module 12 (P1-56), input 2 of input logical AND module 12 (P1-57), input 3 of input logical AND module 12 (P1-58), and input 4 of input logical AND module 12 (P1-59) are all set to 1, the output of custom logical AND module 12 (U10-59) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-58	Input 3 of logical	4352	Refer to	1	Unsigned	1	Real time	General	Effective in

	AND module 12		"Value"		16 bit		changes	user	real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 12. Note: If the input 1 of input logical AND module 12 (P1-56), input 2 of input logical AND module 12 (P1-57), input 3 of input logical AND module 12 (P1-58), and input 4 of input logical AND module 12 (P1-59) are all set to 1, the output of custom logical AND module 12 (U10-59) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-59	Input 4 of logical AND module 12	4353	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 12. Note: If the input 1 of input logical AND module 12 (P1-56), input 2 of input logical AND module 12 (P1-57), input 3 of input logical AND module 12 (P1-58), and input 4 of input logical AND module 12 (P1-59) are all set to 1, the output of custom logical AND module 12 (U10-59) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-60	Execution sequence of logical AND module 13	3958	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 13.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-61	Input 1 of logical AND module 13	4354	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description:								

	Defines input 1 of logical AND module 13. Note: If the input 1 of input logical AND module 13 (P1-61), input 2 of input logical AND module 13 (P1-62), input 3 of input logical AND module 13 (P1-63), and input 4 of input logical AND module 13 (P1-64) are all set to 1, the output of custom logical AND module 13 (U10-60) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-62	Input 2 of logical AND module 13	4355	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical AND module 13. Note: If the input 1 of input logical AND module 13 (P1-61), input 2 of input logical AND module 13 (P1-62), input 3 of input logical AND module 13 (P1-63), and input 4 of input logical AND module 13 (P1-64) are all set to 1, the output of custom logical AND module 13 (U10-60) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-63	Input 3 of logical AND module 13	4356	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 13. Note: If the input 1 of input logical AND module 13 (P1-61), input 2 of input logical AND module 13 (P1-62), input 3 of input logical AND module 13 (P1-63), and input 4 of input logical AND module 13 (P1-64) are all set to 1, the output of custom logical AND module 13 (U10-60) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-64	Input 4 of logical AND module 13	4357	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								

	Description： Defines input 4 of logical AND module 13. Note: If the input 1 of input logical AND module 13 (P1-61), input 2 of input logical AND module 13 (P1-62), input 3 of input logical AND module 13 (P1-63), and input 4 of input logical AND module 13 (P1-64) are all set to 1, the output of custom logical AND module 13 (U10-60) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-65	Execution sequence of logical AND module 14	3959	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of logical AND module 14.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-66	Input 1 of logical AND module 14	4358	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 1 of logical AND module 14. Note: If the input 1 of input logical AND module 14 (P1-66), input 2 of input logical AND module 14 (P1-67), input 3 of input logical AND module 14 (P1-68), and input 4 of input logical AND module 14 (P1-69) are all set to 1, the output of custom logical AND module 14 (U10-61) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-67	Input 2 of logical AND module 14	4359	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1： Invalid Others： B connector								
	Description： Defines input 2 of logical AND module 14. Note: If the input 1 of input logical AND module 14 (P1-66), input 2 of input logical AND module 14 (P1-67), input 3 of input logical AND module 14 (P1-68), and input 4 of input logical AND module 14 (P1-69) are all set to 1, the output of custom								

	logical AND module 14 (U10-61) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-68	Input 3 of logical AND module 14	4360	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 14. Note: If the input 1 of input logical AND module 14 (P1-66), input 2 of input logical AND module 14 (P1-67), input 3 of input logical AND module 14 (P1-68), and input 4 of input logical AND module 14 (P1-69) are all set to 1, the output of custom logical AND module 14 (U10-61) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-69	Input 4 of logical AND module 14	4361	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 14. Note: If the input 1 of input logical AND module 14 (P1-66), input 2 of input logical AND module 14 (P1-67), input 3 of input logical AND module 14 (P1-68), and input 4 of input logical AND module 14 (P1-69) are all set to 1, the output of custom logical AND module 14 (U10-61) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-70	Execution sequence of logical AND module 15	3960	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 15.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-71	Input 1 of logical AND module 15	4362	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 1：Invalid Others：B connector
	Description： Defines input 1 of logical AND module 15. Note: If the input 1 of input logical AND module 15 (P1-71), input 2 of input logical AND module 15 (P1-72), input 3 of input logical AND module 15 (P1-73), and input 4 of input logical AND module 15 (P1-74) are all set to 1, the output of custom logical AND module 15 (U10-62) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-72	Input 2 of logical AND module 15	4363	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Invalid Others：B connector								
	Description： Defines input 2 of logical AND module 15. Note: If the input 1 of input logical AND module 15 (P1-71), input 2 of input logical AND module 15 (P1-72), input 3 of input logical AND module 15 (P1-73), and input 4 of input logical AND module 15 (P1-74) are all set to 1, the output of custom logical AND module 15 (U10-62) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-73	Input 3 of logical AND module 15	4364	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Invalid Others：B connector								
	Description： Defines input 3 of logical AND module 15. Note: If the input 1 of input logical AND module 15 (P1-71), input 2 of input logical AND module 15 (P1-72), input 3 of input logical AND module 15 (P1-73), and input 4 of input logical AND module 15 (P1-74) are all set to 1, the output of custom logical AND module 15 (U10-62) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-74	Input 4 of logical	4365	Refer to	1	Unsigned	1	Real time	General	Effective in

	AND module 15		"Value"		16 bit		changes	user	real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 15. Note: If the input 1 of input logical AND module 15 (P1-71), input 2 of input logical AND module 15 (P1-72), input 3 of input logical AND module 15 (P1-73), and input 4 of input logical AND module 15 (P1-74) are all set to 1, the output of custom logical AND module 15 (U10-62) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-75	Execution sequence of logical AND module 16	3961	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical AND module 16.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-76	Input 1 of logical AND module 16	4366	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical AND module 16. Note: If the input 1 of input logical AND module 16 (P1-76), input 2 of input logical AND module 16 (P1-77), input 3 of input logical AND module 16 (P1-78), and input 4 of input logical AND module 16 (P1-79) are all set to 1, the output of custom logical AND module 16 (U10-63) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-77	Input 2 of logical AND module 16	4367	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description:								

	Defines input 2 of logical AND module 16. Note: If the input 1 of input logical AND module 16 (P1-76), input 2 of input logical AND module 16 (P1-77), input 3 of input logical AND module 16 (P1-78), and input 4 of input logical AND module 16 (P1-79) are all set to 1, the output of custom logical AND module 16 (U10-63) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-78	Input 3 of logical AND module 16	4368	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logical AND module 16. Note: If the input 1 of input logical AND module 16 (P1-76), input 2 of input logical AND module 16 (P1-77), input 3 of input logical AND module 16 (P1-78), and input 4 of input logical AND module 16 (P1-79) are all set to 1, the output of custom logical AND module 16 (U10-63) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-79	Input 4 of logical AND module 16	4369	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical AND module 16. Note: If the input 1 of input logical AND module 16 (P1-76), input 2 of input logical AND module 16 (P1-77), input 3 of input logical AND module 16 (P1-78), and input 4 of input logical AND module 16 (P1-79) are all set to 1, the output of custom logical AND module 16 (U10-63) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-80	Execution sequence of logical NOT module 1	3962	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical NOT module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-81	Input of logical NOT module 1	4370	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 1. Note: If the input of logical NOT module 1 (P1-81) is 1, then the output of custom logical NOT module 1 (U10-64) is 0. Otherwise it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-82	Execution sequence of logical NOT module 2	3963	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical NOT module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-83	Input of logical NOT module 2	4371	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 2. Note: If the input of logical NOT module 2 (P1-83) is 1, then the output of custom logical NOT module 2 (U10-65) is 0. Otherwise it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-84	Execution sequence of logical NOT module 3	3964	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the execution sequence of logical NOT module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-85	Input of logical NOT module 3	4372	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 3. Note: If the input of logical NOT module 3 (P1-85) is 1, then the output of custom logical NOT module 3 (U10-66) is 0. Otherwise it is 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-86	Execution sequence of logical NOT module 4	3965	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical NOT module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-87	Input of logical NOT module 4	4373	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 4. Note: If the input of logical NOT module 4 (P1-87) is 1, then the output of custom logical NOT module 4 (U10-67) is 0. Otherwise it is 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-88	Execution sequence of logical NOT module 5	3966	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the execution sequence of logical NOT module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-89	Input of logical NOT module 5	4374	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 5. Note: If the input of logical NOT module 5 (P1-89) is 1, then the output of custom logical NOT module 5 (U10-68) is 0. Otherwise it is 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-90	Execution sequence of logical NOT module 6	3967	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical NOT module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-91	Input of logical NOT module 6	4375	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 6. Note: If the input of logical NOT module 6 (P1-91) is 1, then the output of custom logical NOT module 6 (U10-69) is 0. Otherwise it is 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-92	Execution sequence of logical NOT	3968	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	module 7								
	Description: Defines the execution sequence of logical NOT module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-93	Input of logical NOT module 7	4376	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 7. Note: If the input of logical NOT module 7 (P1-93) is 1, then the output of custom logical NOT module 7 (U10-70) is 0. Otherwise it is 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-94	Execution sequence of logical NOT module 8	3969	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical NOT module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P1-95	Input of logical NOT module 8	4377	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the data input of logical NOT module 8. Note: If the input of logical NOT module 8 (P1-95) is 1, then the output of custom logical NOT module 8 (U10-71) is 0. Otherwise it is 1.								

P2 Custom logic function block 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-00	Execution sequence of logical OR module 1	3970	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Execution sequence of logical OR module 1								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-01	Input 1 of logical OR module 1	4378	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 1. Note: As long as one of P2-01 (Input 1 of logical OR module 1), P2-02 (Input 2 of logical OR module 1), P2-03 (Input 3 of logical OR module 1), and P2-04 (Input 4 of logical OR module 1) is set to 1, the value is U10-72 (Output of custom logical OR module 1) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-02	Input 2 of logical OR module 1	4379	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 1. Note: As long as one of P2-01 (Input 1 of logical OR module 1), P2-02 (Input 2 of logical OR module 1), P2-03 (Input 3 of logical OR module 1), and P2-04 (Input 4 of logical OR module 1) is set to 1, the value is U10-72 (Output of custom logical OR module 1) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-03	Input 3 of logical OR module 1	4380	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 1. Note: As long as one of P2-01 (Input 1 of logical OR module 1), P2-02 (Input 2 of logical OR module 1), P2-03 (Input 3 of logical OR module 1), and P2-04 (Input 4 of logical OR module 1) is set to 1, the value is U10-72 (Output of custom logical OR module 1) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-04	Input 4 of logical OR module 1	4381	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 1. Note: As long as one of P2-01 (Input 1 of logical OR module 1), P2-02 (Input 2 of logical OR module 1), P2-03 (Input 3 of logical OR module 1), and P2-04 (Input 4 of logical OR module 1) is set to 1, the value is U10-72 (Output of custom logical OR module 1) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-05	Execution sequence of logical OR module 2	3971	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-06	Input 1 of logical OR module 2	4382	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： B connector
	Description： Defines input 1 of logical OR module 2. Note: As long as one of P2-06 (Input 1 of logical OR module 2), P2-07 (Input 2 of logical OR module 2), P2-08 (Input 3 of logical OR module 2), and P2-09 (Input 4 of logical OR module 2) is set to 1, the value is U10-73 (Output of custom logical OR module 2) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-07	Input 2 of logical OR module 2	4383	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 2 of logical OR module 2. Note: As long as one of P2-06 (Input 1 of logical OR module 2), P2-07 (Input 2 of logical OR module 2), P2-08 (Input 3 of logical OR module 2), and P2-09 (Input 4 of logical OR module 2) is set to 1, the value is U10-73 (Output of custom logical OR module 2) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-08	Input 3 of logical OR module 2	4384	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 3 of logical OR module 2. Note: As long as one of P2-06 (Input 1 of logical OR module 2), P2-07 (Input 2 of logical OR module 2), P2-08 (Input 3 of logical OR module 2), and P2-09 (Input 4 of logical OR module 2) is set to 1, the value is U10-73 (Output of custom logical OR module 2) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-09	Input 4 of logical OR module 2	4385	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 2. Note: As long as one of P2-06 (Input 1 of logical OR module 2), P2-07 (Input 2 of logical OR module 2), P2-08 (Input 3 of logical OR module 2), and P2-09 (Input 4 of logical OR module 2) is set to 1, the value is U10-73 (Output of custom logical OR module 2) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-10	Execution sequence of logical OR module 3	3972	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-11	Input 1 of logical OR module 3	4386	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 3. Note: As long as one of P2-11 (Input 1 of logical OR module 3), P2-12 (Input 2 of logical OR module 3), P2-13 (Input 3 of logical OR module 3), and P2-14 (Input 4 of logical OR module 3) is set to 1, the value is U10-74 (Output of custom logical OR module 3) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-12	Input 2 of logical OR module 3	4387	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： B connector
	Description： Defines input 2 of logical OR module 3. Note: As long as one of P2-11 (Input 1 of logical OR module 3), P2-12 (Input 2 of logical OR module 3), P2-13 (Input 3 of logical OR module 3), and P2-14 (Input 4 of logical OR module 3) is set to 1, the value is U10-74 (Output of custom logical OR module 3) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-13	Input 3 of logical OR module 3	4388	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 3 of logical OR module 3. Note: As long as one of P2-11 (Input 1 of logical OR module 3), P2-12 (Input 2 of logical OR module 3), P2-13 (Input 3 of logical OR module 3), and P2-14 (Input 4 of logical OR module 3) is set to 1, the value is U10-74 (Output of custom logical OR module 3) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-14	Input 4 of logical OR module 3	4389	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 4 of logical OR module 3. Note: As long as one of P2-11 (Input 1 of logical OR module 3), P2-12 (Input 2 of logical OR module 3), P2-13 (Input 3 of logical OR module 3), and P2-14 (Input 4 of logical OR module 3) is set to 1, the value is U10-74 (Output of custom logical OR module 3) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-15	Execution sequence of	3973	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	logical OR module 4								time
	Description: Defines the execution sequence of logical OR module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-16	Input 1 of logical OR module 4	4390	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 4. Note: As long as one of P2-16 (Input 1 of logical OR module 4), P2-17 (Input 2 of logical OR module 4), P2-18 (Input 3 of logical OR module 4), and P2-19 (Input 4 of logical OR module 4) is set to 1, the value is U10-75 (Output of custom logical OR module 4) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-17	Input 2 of logical OR module 4	4391	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 4. Note: As long as one of P2-16 (Input 1 of logical OR module 4), P2-17 (Input 2 of logical OR module 4), P2-18 (Input 3 of logical OR module 4), and P2-19 (Input 4 of logical OR module 4) is set to 1, the value is U10-75 (Output of custom logical OR module 4) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-18	Input 3 of logical OR module 4	4392	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： B connector
	Description： Defines input 3 of logical OR module 4. Note: As long as one of P2-16 (Input 1 of logical OR module 4), P2-17 (Input 2 of logical OR module 4), P2-18 (Input 3 of logical OR module 4), and P2-19 (Input 4 of logical OR module 4) is set to 1, the value is U10-75 (Output of custom logical OR module 4) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-19	Input 4 of logical OR module 4	4393	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 4 of logical OR module 4. Note: As long as one of P2-16 (Input 1 of logical OR module 4), P2-17 (Input 2 of logical OR module 4), P2-18 (Input 3 of logical OR module 4), and P2-19 (Input 4 of logical OR module 4) is set to 1, the value is U10-75 (Output of custom logical OR module 4) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-20	Execution sequence of logical OR module 5	3974	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of logical OR module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-21	Input 1 of logical OR module 5	4394	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 1 of logical OR module 5.								

	Note: As long as one of P2-21 (Input 1 of logical OR module 5), P2-22 (Input 2 of logical OR module 5), P2-23 (Input 3 of logical OR module 5), and P2-24 (Input 4 of logical OR module 5) is set to 1, the value is U10-76 (Output of custom logical OR module 5) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-22	Input 2 of logical OR module 5	4395	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 5. Note: As long as one of P2-21 (Input 1 of logical OR module 5), P2-22 (Input 2 of logical OR module 5), P2-23 (Input 3 of logical OR module 5), and P2-24 (Input 4 of logical OR module 5) is set to 1, the value is U10-76 (Output of custom logical OR module 5) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-23	Input 3 of logical OR module 5	4396	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 5. Note: As long as one of P2-21 (Input 1 of logical OR module 5), P2-22 (Input 2 of logical OR module 5), P2-23 (Input 3 of logical OR module 5), and P2-24 (Input 4 of logical OR module 5) is set to 1, the value is U10-76 (Output of custom logical OR module 5) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-24	Input 4 of logical OR module 5	4397	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： B connector
	Description： Defines input 4 of logical OR module 5. Note: As long as one of P2-21 (Input 1 of logical OR module 5), P2-22 (Input 2 of logical OR module 5), P2-23 (Input 3 of logical OR module 5), and P2-24 (Input 4 of logical OR module 5) is set to 1, the value is U10-76 (Output of custom logical OR module 5) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-25	Execution sequence of logical OR module 6	3975	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of logical OR module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-26	Input 1 of logical OR module 6	4398	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 1 of logical OR module 6. Note: As long as one of P2-26 (Input 1 of logical OR module 6), P2-27 (Input 2 of logical OR module 6), P2-28 (Input 3 of logical OR module 6), and P2-29 (Input 4 of logical OR module 6) is set to 1, the value is U10-77 (Output of custom logical OR module 6) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-27	Input 2 of logical OR module 6	4399	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 2 of logical OR module 6.								

	Note: As long as one of P2-26 (Input 1 of logical OR module 6), P2-27 (Input 2 of logical OR module 6), P2-28 (Input 3 of logical OR module 6), and P2-29 (Input 4 of logical OR module 6) is set to 1, the value is U10-77 (Output of custom logical OR module 6) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-28	Input 3 of logical OR module 6	4400	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 6. Note: As long as one of P2-26 (Input 1 of logical OR module 6), P2-27 (Input 2 of logical OR module 6), P2-28 (Input 3 of logical OR module 6), and P2-29 (Input 4 of logical OR module 6) is set to 1, the value is U10-77 (Output of custom logical OR module 6) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-29	Input 4 of logical OR module 6	4401	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 6. Note: As long as one of P2-26 (Input 1 of logical OR module 6), P2-27 (Input 2 of logical OR module 6), P2-28 (Input 3 of logical OR module 6), and P2-29 (Input 4 of logical OR module 6) is set to 1, the value is U10-77 (Output of custom logical OR module 6) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-30	Execution sequence of logical OR module 7	3976	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-31	Input 1 of logical OR module 7	4402	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 7. Note: As long as one of P2-31 (Input 1 of logical OR module 7), P2-32 (Input 2 of logical OR module 7), P2-33 (Input 3 of logical OR module 7), and P2-34 (Input 4 of logical OR module 7) is set to 1, the value is U10-78 (Output of custom logical OR module 7) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-32	Input 2 of logical OR module 7	4403	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 7. Note: As long as one of P2-31 (Input 1 of logical OR module 7), P2-32 (Input 2 of logical OR module 7), P2-33 (Input 3 of logical OR module 7), and P2-34 (Input 4 of logical OR module 7) is set to 1, the value is U10-78 (Output of custom logical OR module 7) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-33	Input 3 of logical OR module 7	4404	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 7. Note:								

	As long as one of P2-31 (Input 1 of logical OR module 7), P2-32 (Input 2 of logical OR module 7), P2-33 (Input 3 of logical OR module 7), and P2-34 (Input 4 of logical OR module 7) is set to 1, the value is U10-78 (Output of custom logical OR module 7) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-34	Input 4 of logical OR module 7	4405	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 7. Note: As long as one of P2-31 (Input 1 of logical OR module 7), P2-32 (Input 2 of logical OR module 7), P2-33 (Input 3 of logical OR module 7), and P2-34 (Input 4 of logical OR module 7) is set to 1, the value is U10-78 (Output of custom logical OR module 7) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-35	Execution sequence of logical OR module 8	3977	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-36	Input 1 of logical OR module 8	4406	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 8. Note: As long as one of P2-36 (Input 1 of logical OR module 8), P2-37 (Input 2 of logical OR module 8), P2-38 (Input 3 of logical OR module 8), and P2-39 (Input 4 of logical OR module 8) is set to 1, the value is U10-79 (Output of custom logical OR module 8) is 1. Otherwise, it is 0.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P2-37	Input 2 of logical OR module 8	4407	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 8. Note: As long as one of P2-36 (Input 1 of logical OR module 8), P2-37 (Input 2 of logical OR module 8), P2-38 (Input 3 of logical OR module 8), and P2-39 (Input 4 of logical OR module 8) is set to 1, the value is U10-79 (Output of custom logical OR module 8) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-38	Input 3 of logical OR module 8	4408	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 8. Note: As long as one of P2-36 (Input 1 of logical OR module 8), P2-37 (Input 2 of logical OR module 8), P2-38 (Input 3 of logical OR module 8), and P2-39 (Input 4 of logical OR module 8) is set to 1, the value is U10-79 (Output of custom logical OR module 8) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-39	Input 4 of logical OR module 8	4409	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 8. Note: As long as one of P2-36 (Input 1 of logical OR module 8), P2-37 (Input 2 of logical OR module 8), P2-38 (Input 3 of logical								

	OR module 8), and P2-39 (Input 4 of logical OR module 8) is set to 1, the value is U10-79 (Output of custom logical OR module 8) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-40	Execution sequence of logical OR module 9	3978	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 9.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-41	Input 1 of logical OR module 9	4410	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 9. Note: As long as one of P2-41 (Input 1 of logical OR module 9), P2-42 (Input 2 of logical OR module 9), P2-43 (Input 3 of logical OR module 9), and P2-44 (Input 4 of logical OR module 9) is set to 1, the value is U10-80 (Output of custom logical OR module 9) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-42	Input 2 of logical OR module 9	4411	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 9. Note: As long as one of P2-41 (Input 1 of logical OR module 9), P2-42 (Input 2 of logical OR module 9), P2-43 (Input 3 of logical OR module 9), and P2-44 (Input 4 of logical OR module 9) is set to 1, the value is U10-80 (Output of custom logical OR module 9) is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P2-43	Input 3 of logical OR module 9	4412	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 9. Note: As long as one of P2-41 (Input 1 of logical OR module 9), P2-42 (Input 2 of logical OR module 9), P2-43 (Input 3 of logical OR module 9), and P2-44 (Input 4 of logical OR module 9) is set to 1, the value is U10-80 (Output of custom logical OR module 9) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-44	Input 4 of logical OR module 9	4413	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 9. Note: As long as one of P2-41 (Input 1 of logical OR module 9), P2-42 (Input 2 of logical OR module 9), P2-43 (Input 3 of logical OR module 9), and P2-44 (Input 4 of logical OR module 9) is set to 1, the value is U10-80 (Output of custom logical OR module 9) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-45	Execution sequence of logical OR module 10	3979	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 10.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-46	Input 1 of logical OR module 10	4414	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Invalid Others: B connector
	Description: Defines input 1 of logical OR module 10. Note: As long as one of P2-46 (Input 1 of logical OR module 10), P2-47 (Input 2 of logical OR module 10), P2-48 (Input 3 of logical OR module 10), and P2-49 (Input 4 of logical OR module 10) is set to 1, the value is U10-81 (Output of custom logical OR module 10) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-47	Input 2 of logical OR module 10	4415	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 10. Note: As long as one of P2-46 (Input 1 of logical OR module 10), P2-47 (Input 2 of logical OR module 10), P2-48 (Input 3 of logical OR module 10), and P2-49 (Input 4 of logical OR module 10) is set to 1, the value is U10-81 (Output of custom logical OR module 10) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-48	Input 3 of logical OR module 10	4416	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 10. Note: As long as one of P2-46 (Input 1 of logical OR module 10), P2-47 (Input 2 of logical OR module 10), P2-48 (Input 3 of logical OR module 10), and P2-49 (Input 4 of logical OR module 10) is set to 1, the value is U10-81 (Output of custom logical OR module 10) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P2-49	Input 4 of logical OR module 10	4417	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 10. Note: As long as one of P2-46 (Input 1 of logical OR module 10), P2-47 (Input 2 of logical OR module 10), P2-48 (Input 3 of logical OR module 10), and P2-49 (Input 4 of logical OR module 10) is set to 1, the value is U10-81 (Output of custom logical OR module 10) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-50	Execution sequence of logical OR module 11	3980	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 11.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-51	Input 1 of logical OR module 11	4418	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 11. Note: As long as one of P2-51 (Input 1 of logical OR module 11), P2-52 (Input 2 of logical OR module 11), P2-53 (Input 3 of logical OR module 11), and P2-54 (Input 4 of logical OR module 11) is set to 1, the value is U10-82 (Output of custom logical OR module 11) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-52	Input 2 of logical OR module 11	4419	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Invalid Others: B connector
	Description: Defines input 2 of logical OR module 11. Note: As long as one of P2-51 (Input 1 of logical OR module 11), P2-52 (Input 2 of logical OR module 11), P2-53 (Input 3 of logical OR module 11), and P2-54 (Input 4 of logical OR module 11) is set to 1, the value is U10-82 (Output of custom logical OR module 11) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-53	Input 3 of logical OR module 11	4420	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 3 of logical OR module 11. Note: As long as one of P2-51 (Input 1 of logical OR module 11), P2-52 (Input 2 of logical OR module 11), P2-53 (Input 3 of logical OR module 11), and P2-54 (Input 4 of logical OR module 11) is set to 1, the value is U10-82 (Output of custom logical OR module 11) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-54	Input 4 of logical OR module 11	4421	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 4 of logical OR module 11. Note: As long as one of P2-51 (Input 1 of logical OR module 11), P2-52 (Input 2 of logical OR module 11), P2-53 (Input 3 of logical OR module 11), and P2-54 (Input 4 of logical OR module 11) is set to 1, the value is U10-82 (Output of custom logical OR module 11) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P2-55	Execution sequence of logical OR module 12	3981	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical OR module 12.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-56	Input 1 of logical OR module 12	4422	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical OR module 12. Note: As long as one of P2-56 (Input 1 of logical OR module 12), P2-57 (Input 2 of logical OR module 12), P2-58 (Input 3 of logical OR module 12), and P2-59 (Input 4 of logical OR module 12) is set to 1, the value is U10-83 (Output of custom logical OR module 12) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-57	Input 2 of logical OR module 12	4423	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical OR module 12. Note: As long as one of P2-56 (Input 1 of logical OR module 12), P2-57 (Input 2 of logical OR module 12), P2-58 (Input 3 of logical OR module 12), and P2-59 (Input 4 of logical OR module 12) is set to 1, the value is U10-83 (Output of custom logical OR module 12) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-58	Input 3 of logical OR module 12	4424	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： B connector
	Description： Defines input 3 of logical OR module 12. Note: As long as one of P2-56 (Input 1 of logical OR module 12), P2-57 (Input 2 of logical OR module 12), P2-58 (Input 3 of logical OR module 12), and P2-59 (Input 4 of logical OR module 12) is set to 1, the value is U10-83 (Output of custom logical OR module 12) is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-59	Input 4 of logical OR module 12	4425	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 4 of logical OR module 12. Note: As long as one of P2-56 (Input 1 of logical OR module 12), P2-57 (Input 2 of logical OR module 12), P2-58 (Input 3 of logical OR module 12), and P2-59 (Input 4 of logical OR module 12) is set to 1, the value is U10-83 (Output of custom logical OR module 12) is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-60	Execution sequence of XOR\XNOR module 1	3982	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of XOR\XNOR module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-61	Function selection for logical XOR/XNOR module 1	4426	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： XOR								

	1：XNOR
	Description： Defines the function of logical XOR/XNOR module 1. Value description: 0: XOR - Logical XOR is active. When P2-62 [Logical XOR/XNOR module 1 input 1] is different from P2-63 [Logical XOR/XNOR module 1 input 2], U10-84 [Custom logical XOR/XNOR module 1 output] is 1. Otherwise, it is 0. 1: XNOR - Logical XNOR is active. When P2-62 [Logical XOR/XNOR module 1 input 1] is the same as P2-63 [Logical XOR/XNOR module 1 input 2], U10-84 [Custom logical XOR/XNOR module 1 output] is 1. Otherwise, it is 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-62	Input 1 of logical XOR/XNOR module 1	4427	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 1 of logical XOR/XNOR module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-63	Input 2 of logical XOR/XNOR module 1	4428	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 2 of logical XOR/XNOR module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-64	Execution sequence of logical XOR\XNOR module 2	3983	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of XOR\XNOR module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-65	Function selection for	4429	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	logical XOR/XNOR module 2								time
	Value: 0: XOR 1: XNOR								
	Description: Defines the function of logical XOR/XNOR module 2. Value description: 0: XOR - Logical XOR is active. When P2-66 [Logical XOR/XNOR module 2 input 1] is different from P2-67 [Logical XOR/XNOR module 2 input 2], U10-85 [Custom logical XOR/XNOR module 2 output] is 1. Otherwise, it is 0. 1: XNOR - Logical XNOR is active. When P2-66 [Logical XOR/XNOR module 2 input 1] is the same as P2-67 [Logical XOR/XNOR module 2 input 2], U10-85 [Custom logical XOR/XNOR module 2 output] is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-66	Input 1 of logical XOR/XNOR module 2	4430	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical XOR/XNOR module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-67	Input 2 of logical XOR/XNOR module 2	4431	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical XOR/XNOR module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-68	Execution sequence of logical XOR\XNOR module 3	3984	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of XOR\XNOR module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-69	Function selection for logical XOR/XNOR module 3	4432	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: XOR 1: XNOR								
	Description: Defines the function of logical XOR/XNOR module 3. Value description: 0: XOR - Logical XOR is active. When P2-70 [Logical XOR/XNOR module 3 input 1] is different from P2-71 [Logical XOR/XNOR module 3 input 2], U10-86 [Custom logical XOR/XNOR module 3 output] is 1. Otherwise, it is 0. 1: XNOR - Logical XNOR is active. When P2-70 [Logical XOR/XNOR module 3 input 1] is the same as P2-71 [Logical XOR/XNOR module 3 input 2], U10-86 [Custom logical XOR/XNOR module 3 output] is 1. Otherwise, it is 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-70	Input 1 of logical XOR/XNOR module 3	4433	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of logical XOR/XNOR module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-71	Input 2 of logical XOR/XNOR module 3	4434	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of logical XOR/XNOR module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-72	Execution sequence of	3985	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	logical XOR\XNOR module 4								time
	Description： Defines the execution sequence of XOR\XNOR module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-73	Function selection for logical XOR/XNOR module 4	4435	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： XOR 1： XNOR								
	Description： Defines the function of logical XOR/XNOR module 4. Value description: 0: XOR - Logical XOR is active. When P2-74 [Logical XOR/XNOR module 4 input 1] is different from P2-75 [Logical XOR/XNOR module 4 input 2], U10-87 [Custom logical XOR/XNOR module 4 output] is 1. Otherwise, it is 0. 1: XNOR - Logical XNOR is active. When P2-74 [Logical XOR/XNOR module 4 input 1] is the same as P2-75 [Logical XOR/XNOR module 4 input 2], U10-87 [Custom logical XOR/XNOR module 4 output] is 1. Otherwise, it is 0.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-74	Input 1 of logical XOR/XNOR module 4	4436	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 1 of logical XOR/XNOR module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-75	Input 2 of logical XOR/XNOR module 4	4437	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 2 of logical XOR/XNOR module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-76	Execution sequence of NAND module 1	4056	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of NAND module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-77	Input 1 of logical NAND module 1	4803	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logical NAND module 1. Note: If the input 1 of logical NAND module 1 (P2-77), input 2 of logical NAND module 1 (P2-78), input 3 of logical NAND module 1 (P2-79), and input 4 of logical NAND module 1 (P2-80) are all set to 1, the output of custom logical NAND module 1 (U10-88) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-78	Input 2 of logic NAND module 1	4804	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logical NAND module 1. Note: If the input 1 of logical NAND module 1 (P2-77), input 2 of logical NAND module 1 (P2-78), input 3 of logical NAND module 1 (P2-79), and input 4 of logical NAND module 1 (P2-80) are all set to 1, the output of custom logical NAND module 1 (U10-88) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-79	Input 3 of logical NAND module 1	4805	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 1: Invalid Others: B connector
	Description: Defines input 3 of logical NAND module 1. Note: If the input 1 of logical NAND module 1 (P2-77), input 2 of logical NAND module 1 (P2-78), input 3 of logical NAND module 1 (P2-79), and input 4 of logical NAND module 1 (P2-80) are all set to 1, the output of custom logical NAND module 1 (U10-88) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-80	Input 4 of logic NAND module 1	4806	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logical NAND module 1. Note: If the input 1 of logical NAND module 1 (P2-77), input 2 of logical NAND module 1 (P2-78), input 3 of logical NAND module 1 (P2-79), and input 4 of logical NAND module 1 (P2-80) are all set to 1, the output of custom logical NAND module 1 (U10-88) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-81	Execution sequence of NAND module 2	4057	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logical NAND module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-82	Input 1 of logic NAND module 2	4807	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description:								

	Defines input 1 of logic NAND module 2. Note: If the input 1 of logical NAND module 2 (P2-82), input 2 of logical NAND module 2 (P2-83), input 3 of logical NAND module 2 (P2-84), and input 4 of logical NAND module 2 (P2-85) are all set to 1, the output of custom logical NAND module 2 (U10-89) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-83	Input 2 of logic NAND module 2	4808	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logic NAND module 2. Note: If the input 1 of logical NAND module 2 (P2-82), input 2 of logical NAND module 2 (P2-83), input 3 of logical NAND module 2 (P2-84), and input 4 of logical NAND module 2 (P2-85) are all set to 1, the output of custom logical NAND module 2 (U10-89) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-84	Input 3 of logic NAND module 2	4809	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logic NAND module 2. Note: If the input 1 of logical NAND module 2 (P2-82), input 2 of logical NAND module 2 (P2-83), input 3 of logical NAND module 2 (P2-84), and input 4 of logical NAND module 2 (P2-85) are all set to 1, the output of custom logical NAND module 2 (U10-89) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-85	Input 4 of logic NAND module 2	4810	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	1：Invalid Others：B connector
	Description： Defines input 4 of logic NAND module 2. Note: If the input 1 of logical NAND module 2 (P2-82), input 2 of logical NAND module 2 (P2-83), input 3 of logical NAND module 2 (P2-84), and input 4 of logical NAND module 2 (P2-85) are all set to 1, the output of custom logical NAND module 2 (U10-89) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-86	Execution sequence of NAND module 3	4058	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of NAND module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-87	Input 1 of logic NAND module 3	4811	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Invalid Others：B connector								
	Description： Defines input 1 of logic NAND module 3. Note: If the input 1 of logical NAND module 3 (P2-87), input 2 of logical NAND module 3 (P2-88), input 3 of logical NAND module 3 (P2-89), and input 4 of logical NAND module 3 (P2-90) are all set to 1, the output of custom logical NAND module 3 (U10-90) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-88	Input 2 of logic NAND module 3	4812	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 1：Invalid Others：B connector								
	Description： Defines input 2 of logic NAND module 3.								

	Note: If the input 1 of logical NAND module 3 (P2-87), input 2 of logical NAND module 3 (P2-88), input 3 of logical NAND module 3 (P2-89), and input 4 of logical NAND module 3 (P2-90) are all set to 1, the output of custom logical NAND module 3 (U10-90) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-89	Input 3 of logic NAND module 3	4813	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logic NAND module 3. Note: If the input 1 of logical NAND module 3 (P2-87), input 2 of logical NAND module 3 (P2-88), input 3 of logical NAND module 3 (P2-89), and input 4 of logical NAND module 3 (P2-90) are all set to 1, the output of custom logical NAND module 3 (U10-90) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-90	Input 4 of logic NAND module 3	4814	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logic NAND module 3. Note: If the input 1 of logical NAND module 3 (P2-87), input 2 of logical NAND module 3 (P2-88), input 3 of logical NAND module 3 (P2-89), and input 4 of logical NAND module 3 (P2-90) are all set to 1, the output of custom logical NAND module 3 (U10-90) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-91	Execution sequence of NAND module 4	4059	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of NAND module 4.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P2-92	Input 1 of logic NAND module 4	4815	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 1 of logic NAND module 4. Note: If the input 1 of logical NAND module 4 (P2-92), input 2 of logical NAND module 4 (P2-93), input 3 of logical NAND module 4 (P2-94), and input 4 of logical NAND module 4 (P2-95) are all set to 1, the output of custom logical NAND module 4 (U10-91) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-93	Input 2 of logic NAND module 4	4816	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 2 of logic NAND module 4. Note: If the input 1 of logical NAND module 4 (P2-92), input 2 of logical NAND module 4 (P2-93), input 3 of logical NAND module 4 (P2-94), and input 4 of logical NAND module 4 (P2-95) are all set to 1, the output of custom logical NAND module 4 (U10-91) is 0. Otherwise, it is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-94	Input 3 of logic NAND module 4	4817	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 3 of logic NAND module 4. Note: If the input 1 of logical NAND module 4 (P2-92), input 2 of logical NAND module 4 (P2-93), input 3 of logical NAND module								

	4 (P2-94), and input 4 of logical NAND module 4 (P2-95) are all set to 1, the output of custom logical NAND module 4 (U10-91) is 0. Otherwise, it is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P2-95	Input 4 of logic NAND module 4	4818	Refer to "Value"	1	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 1: Invalid Others: B connector								
	Description: Defines input 4 of logic NAND module 4. Note: If the input 1 of logical NAND module 4 (P2-92), input 2 of logical NAND module 4 (P2-93), input 3 of logical NAND module 4 (P2-94), and input 4 of logical NAND module 4 (P2-95) are all set to 1, the output of custom logical NAND module 4 (U10-91) is 0. Otherwise, it is 1.								

P3 Custom switch function block

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-00	Execution sequence of binary multiplexer module 1	4026	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of binary multiplexer module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-01	Input selection of binary multiplexer module 1	4562	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module 1. Value description:								

	0: Input 1 - The output of U10-92 [Output of custom binary multiplexer module 1] is equal to P3-02 [Input 1 of binary multiplexer module 1]. 1: Input 2 - The output of U10-92 [Output of custom binary multiplexer module 1] is equal to P3-03 [Input 2 of binary multiplexer module 1]. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-02	Input 1 of binary multiplexer module 1	4563	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of binary multiplexer module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-03	Input 2 of binary multiplexer module 1	4564	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of binary multiplexer module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-04	Execution sequence of binary multiplexer module 2	4027	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of binary multiplexer module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-05	Input selection of binary multiplexer module 2	4565	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2								

	Others： B connector
	Description： Defines the input selection for binary multiplexer module 2. Value description: 0: Input 1 - The output of U10-93 [Output of custom binary multiplexer module 2] is equal to P3-06 [Input 1 of binary multiplexer module 2]. 1: Input 2 - The output of U10-93 [output of custom binary multiplexer module 2] is equal to P3-07 [Input 2 of binary multiplexer module 2]. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-06	Input 1 of binary multiplexer module 2	4566	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 1 of binary multiplexer module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-07	Input 2 of binary multiplexer module 2	4567	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines input 2 of binary multiplexer module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-08	Execution sequence of binary multiplexer module 3	4028	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of binary multiplexer module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-09	Input selection of	4568	Refer to	0	Unsigned	1	Real time	General	Effective

	binary multiplexer module 3		"Value"		16 bit		changes	user	in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module 3. Value description: 0: Input 1 - The output of U10-94 [Output of custom binary multiplexer module 3] is equal to P3-10 [Input 1 of binary multiplexer module 3]. 1: Input 2 - The output of U10-94 [output of custom binary multiplexer module 3] is equal to P3-11 [Input 2 of binary multiplexer module 3]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-10	Input 1 of binary multiplexer module 3	4569	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of binary multiplexer module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-11	Input 2 of binary multiplexer module 3	4570	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of binary multiplexer module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-12	Execution sequence of binary multiplexer module 4	4029	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the execution sequence of binary multiplexer module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-13	Input selection of binary multiplexer module 4	4571	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module 4. Value description: 0: Input 1 - The output of U10-95 [output of custom binary multiplexer module 4] is equal to P3-14 [Input 1 of binary multiplexer module 4]. 1: Input 2 - The output of U10-95 [output of custom binary multiplexer module 4] is equal to P3-15 [Input 2 of binary multiplexer module 4]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-14	Input 1 of binary multiplexer module 4	4572	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of binary multiplexer module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-15	Input 2 of binary multiplexer module 4	4573	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of binary multiplexer module 4.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P3-16	Execution sequence of binary multiplexer module 5	4030	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of binary multiplexer module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-17	Input selection of binary multiplexer module 5	4574	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module 5. Value description: 0: Input 1 - The output of U10-96 [output of custom binary multiplexer module 5] is equal to P3-18 [Input 1 of binary multiplexer module 5]. 1: Input 2 - The output of U10-96 [output of custom binary multiplexer module 5] is equal to P3-19 [Input 2 of binary multiplexer module 5]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-18	Input 1 of binary multiplexer module 5	4575	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of binary multiplexer module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-19	Input 2 of binary multiplexer module 5	4576	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines input 2 of binary multiplexer module 5.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-20	Execution sequence of binary multiplexer module 6	4031	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of binary multiplexer module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-21	Input selection of binary multiplexer module 6	4577	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Input 1 1：Input 2 Others：B connector								
	Description： Defines the input selection for binary multiplexer module 6. Value description: 0: Input 1 - The output of U10-97 [Output of custom binary multiplexer module 6] is equal to P3-22 [Input 1 of binary multiplexer module 6]. 1: Input 2 - The output of U10-97 [output of custom binary multiplexer module 6] is equal to P3-23 [Input 2 of binary multiplexer module 6]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-22	Input 1 of binary multiplexer module 6	4578	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 1 of binary multiplexer module 6.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
	Input 2 of binary multiplexer module 6	4579	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
P3-23	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of binary multiplexer module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-24	Execution sequence of binary multiplexer module 7	4032	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of binary multiplexer module 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-25	Input selection of binary multiplexer module 7	4580	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for binary multiplexer module 7. Value description: 0: Input 1 - The output of U10-98 [Output of custom binary multiplexer module 7] is equal to P3-26 [Input 1 of binary multiplexer module 7]. 1: Input 2 - The output of U10-98 [output of custom binary multiplexer module 7] is equal to P3-27 [Input 2 of binary multiplexer module 7]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-26	Input 1 of binary multiplexer module 7	4581	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value:								

	0：Invalid Others：B connector
	Description： Defines input 1 of binary multiplexer module 7.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-27	Input 2 of binary multiplexer module 7	4582	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：B connector								
	Description： Defines input 2 of binary multiplexer module 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-28	Execution sequence of binary multiplexer module 8	4033	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of binary multiplexer module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-29	Input selection of binary multiplexer module 8	4583	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Input 1 1：Input 2 Others：B connector								
	Description： Defines the input selection for binary multiplexer module 8. Value description: 0: Input 1 - The output of U10-99 [Output of custom binary multiplexer module 8] is equal to P3-30 [Input 1 of binary multiplexer module 8]. 1: Input 2 - The output of U10-99 [output of custom binary multiplexer module 8] is equal to P3-31 [Input 2 of binary multiplexer module 8]. Others: B connector								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P3-30	Input 1 of binary multiplexer module 8	4584	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 1 of binary multiplexer module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-31	Input 2 of binary multiplexer module 8	4585	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines input 2 of binary multiplexer module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-32	Execution sequence of digital multiplexer module 1	4034	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of digital multiplexer module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-33	Input selection for digital multiplexer module 1	4586	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 1. Value description: 0: Input 1 - The output of U19-03 [Output of custom digital multiplexer module 1] is equal to P3-34 [Input 1 of digital								

	multiplexer module 1]. 1: Input 2 - The output of U19-03 (Output of custom digital multiplexer module 1) is equal to P3-35 (Input 2 of digital multiplexer module 1). Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-34	Input 1 of digital multiplexer module 1	4587	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-35	Input 2 of digital multiplexer module 1	4588	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-36	Execution sequence of digital multiplexer module 2	4035	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of digital multiplexer module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-37	Input selection for digital multiplexer module 2	4589	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								

	Description： Defines the input selection for digital multiplexer module 2. Value description: 0: Input 1 - The output of U19-04 [Output of custom digital multiplexer module 2] is equal to P3-38 [Input 1 of digital multiplexer module 2]. 1: Input 2 - The output of U19-04 [Output of custom digital multiplexer module 2] is equal to P3-39 [Input 2 of digital multiplexer module 2]. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-38	Input 1 of digital multiplexer module 2	4590	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 1 of digital multiplexer module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-39	Input 2 of digital multiplexer module 2	4591	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 2 of digital multiplexer module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-40	Execution sequence of digital multiplexer module 3	4036	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of digital multiplexer module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-41	Input selection for digital multiplexer	4592	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	module 3								time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 3. Value description: 0: Input 1 - The output of U19-05 [Output of custom digital multiplexer module 3] is equal to P3-42 [Input 1 of digital multiplexer module 3]. 1: Input 2 - The output of U19-05 [Output of custom digital multiplexer module 3] is equal to P3-43 [Input 2 of digital multiplexer module 3]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-42	Input 1 of digital multiplexer module 3	4593	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-43	Input 2 of digital multiplexer module 3	4594	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-44	Execution sequence of digital multiplexer module 4	4037	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the execution sequence of digital multiplexer module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-45	Input selection for digital multiplexer module 4	4595	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 4. Value description: 0: Input 1 - The output of U19-06 [Output of custom digital multiplexer module 4] is equal to P3-46 [Input 1 of digital multiplexer module 4]. 1: Input 2 - The output of U19-06 [Output of custom digital multiplexer module 4] is equal to P3-47 [Input 2 of digital multiplexer module 4]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-46	Input 1 of digital multiplexer module 4	4596	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-47	Input 2 of digital multiplexer module 4	4597	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P3-48	Execution sequence of digital multiplexer module 5	4038	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of digital multiplexer module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-49	Input selection for digital multiplexer module 5	4598	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 5. Value description: 0: Input 1 - The output of U19-07 [Output of custom digital multiplexer module 5] is equal to P3-50 [Input 1 of digital multiplexer module 5]. 1: Input 2 - The output of U19-07 [Output of custom digital multiplexer module 5] is equal to P3-50 [Input 2 of digital multiplexer module 5]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-50	Input 1 of digital multiplexer module 5	4599	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-51	Input 2 of digital multiplexer module 5	4600	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines input 2 of digital multiplexer module 5.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-52	Execution sequence of digital multiplexer module 6	4039	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of digital multiplexer module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-53	Input selection for digital multiplexer module 6	4601	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Input 1 1： Input 2 Others： B connector								
	Description： Defines the input selection for digital multiplexer module 6. Value description: 0: Input 1 - The output of U19-08 [Output of custom digital multiplexer module 6] is equal to P3-54 [Input 1 of digital multiplexer module 6]. 1: Input 2 - The output of U19-08 [Output of custom digital multiplexer module 6] is equal to P3-55 [Input 2 of digital multiplexer module 6]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-54	Input 1 of digital multiplexer module 6	4602	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 1 of digital multiplexer module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P3-55	Input 2 of digital multiplexer module 6	4603	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-56	Execution sequence of digital multiplexer module 7	4040	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of digital multiplexer module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-57	Input selection for digital multiplexer module 7	4604	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 7. Value description: 0: Input 1 - The output of U19-09 [Output of custom digital multiplexer module 7] is equal to P3-58 [Input 1 of digital multiplexer module 7]. 1: Input 2 - The output of U19-09 [Output of custom digital multiplexer module 7] is equal to P3-59 [Input 2 of digital multiplexer module 7]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-58	Input 1 of digital multiplexer module 7	4605	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector								
	Description： Defines input 1 of digital multiplexer module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-59	Input 2 of digital multiplexer module 7	4606	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 2 of digital multiplexer module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-60	Execution sequence of digital multiplexer module 8	4041	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of digital multiplexer module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-61	Input selection for digital multiplexer module 8	4607	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Input 1 1： Input 2 Others： B connector								
	Description： Defines the input selection for digital multiplexer module 8. Value description: 0: Input 1 - The output of U19-10 [Output of custom digital multiplexer module 8] is equal to P3-62 [Input 1 of digital multiplexer module 8]. 1: Input 2 - The output of U19-10 [Output of custom digital multiplexer module 8] is equal to P3-63 [Input 2 of digital multiplexer module 8]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P3-62	Input 1 of digital multiplexer module 8	4608	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-63	Input 2 of digital multiplexer module 8	4609	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-64	Execution sequence of digital multiplexer module 9	4042	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of digital multiplexer module 9.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-65	Input selection for digital multiplexer module 9	4610	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 9. Value description: 0: Input 1 - The output of U19-11 [Output of custom digital multiplexer module 9] is equal to P3-66 [Input 1 of digital multiplexer module 9].								

	1: Input 2 - The output of U19-11 [Output of custom digital multiplexer module 9] is equal to P3-67 [Input 2 of digital multiplexer module 9]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-66	Input 1 of digital multiplexer module 9	4611	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 9.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-67	Input 2 of digital multiplexer module 9	4612	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 9.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-68	Execution sequence of digital multiplexer module 10	4043	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of digital multiplexer module 10.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-69	Input selection for digital multiplexer module 10	4613	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description:								

	Defines the input selection for digital multiplexer module 10. Value description: 0: Input 1 - The output of U19-12 [Output of custom digital multiplexer module 10] is equal to P3-70 [Input 1 of digital multiplexer module 10]. 1: Input 2 - The output of U19-12 [Output of custom digital multiplexer module 10] is equal to P3-71 [Input 2 of digital multiplexer module 10]. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-70	Input 1 of digital multiplexer module 10	4614	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 1 of digital multiplexer module 10.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-71	Input 2 of digital multiplexer module 10	4615	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 2 of digital multiplexer module 10.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-72	Execution sequence of digital multiplexer module 11	4044	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of digital multiplexer module 11.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-73	Input selection for digital multiplexer module 11	4616	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Input 1 1： Input 2 Others： B connector
	Description： Defines the input selection for digital multiplexer module 11. Value description: 0: Input 1 - The output of U19-13 [Output of custom digital multiplexer module 11] is equal to P3-74 [Input 1 of digital multiplexer module 11]. 1: Input 2 - The output of U19-13 [Output of custom digital multiplexer module 11] is equal to P3-75 [Input 2 of digital multiplexer module 11]. Others: B connector

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-74	Input 1 of digital multiplexer module 11	4617	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 1 of digital multiplexer module 11.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-75	Input 2 of digital multiplexer module 11	4618	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines input 2 of digital multiplexer module 11.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-76	Execution sequence of digital multiplexer module 12	4045	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of digital multiplexer module 12.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-77	Input selection for digital multiplexer module 12	4619	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Input 1 1: Input 2 Others: B connector								
	Description: Defines the input selection for digital multiplexer module 12. Value description: 0: Input 1 - The output of U19-14 [Output of custom digital multiplexer module 12] is equal to P3-78 [Input 1 of digital multiplexer module 12]. 1: Input 2 - The output of U19-14 [Output of custom digital multiplexer module 12] is equal to P3-79 [Input 2 of digital multiplexer module 12]. Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-78	Input 1 of digital multiplexer module 12	4620	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 1 of digital multiplexer module 12.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P3-79	Input 2 of digital multiplexer module 12	4621	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines input 2 of digital multiplexer module 12.								

P4 Custom control function block 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-00	Execution sequence of logic delay module 1	3986	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logic delay module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-01	Input of logic delay module 1	4438	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input value of logic delay module 1. Value description: 0: Invalid Others: B connector								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-02	Function selection for logic delay module 1	4439	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								
	Description: Defines the function selection for logic delay module 1. Value description: 0: Switch-on delay - Switch-on delay applies when P4-01 [Input of logic delay module 1] changes from 0 to 1. 1: Switch-off delay - Switch-off delay applies when P4-01 [Input of logic delay module 1] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether P4-01 [Input of logic delay module 1] changes from 1 to 0 or from 0 to 1. Note: The delay time depends on the delay time of logic delay module 1 (P4-03). Level pulse changes that lower than the delay time of logic delay module 1 (P4-03) are filtered out.								

	The output can be monitored by the output of custom logic delay module 1 (U11-00).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-03	Delay of logic delay module 1	4440	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the delay of logic delay module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-04	Execution sequence of logic delay module 2	3987	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logic delay module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-05	Input of logic delay module 2	4441	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input value of logic delay module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-06	Function selection for logic delay module 2	4442	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								
	Description: Defines the function selection for logic delay module 2. Value description: 0: Switch-on delay - Switch-on delay applies when P4-05 [Input of logic delay module 2] changes from 0 to 1. 1: Switch-off delay - Switch-off delay applies when P4-05 [Input of logic delay module 2] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether P4-05 [Input of logic delay module 2] changes from 1 to 0 or from								

	0 to 1. Note: The delay time depends on the delay time of logic delay module 2 (P4-07). Level pulse changes that lower than the delay time of logic delay module 2 (P4-07) are filtered out. The output can be monitored by the output of custom logic delay module 2 (U11-01).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-07	Delay of logic delay module 2	4443	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the delay of logic delay module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-08	Execution sequence of logic delay module 3	3988	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logic delay module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-09	Input of logic delay module 3	4444	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input value of logic delay module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-10	Function selection for logic delay module 3	4445	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay 1: Switch-off delay 2: Bidirectional delay								
	Description: Defines the function selection for logic delay module 3.								

	Value description: 0: Switch-on delay - Switch-on delay applies when P4-09 [Input of logic delay module 3] changes from 0 to 1. 1: Switch-off delay - Switch-off delay applies when P4-09 [Input of logic delay module 3] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether P4-09 [Input of logic delay module 3] changes from 1 to 0 or from 0 to 1. Note: The delay time depends on the delay time of logic delay module 3 (P4-11). Level pulse changes that lower than the delay time of logic delay module 3 (P4-11) are filtered out. The output can be monitored by the output of custom logic delay module 3 (U11-02).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-11	Delay of logic delay module 3	4446	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the delay of logic delay module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-12	Execution sequence of logic delay module 4	3989	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of logic delay module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-13	Input of logic delay module 4	4447	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input value of logic delay module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-14	Function selection for logic delay module 4	4448	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Switch-on delay								

	1：Switch-off delay 2：Bidirectional delay
	Description： Defines the function selection for logic delay module 4. Value description: 0: Switch-on delay - Switch-on delay applies when P4-13 [Input of logic delay module 4] changes from 0 to 1. 1: Switch-off delay - Switch-off delay applies when P4-13 [Input of logic delay module 4] changes from 1 to 0. 2: Bi-directional delay - Delay applies no matter whether P4-13 [Input of logic delay module 4] changes from 1 to 0 or from 0 to 1. Note: The delay time depends on the delay time of logic delay module 4 (P4-15). Level pulse changes that lower than the delay time of logic delay module 4 (P4-15) are filtered out. The output can be monitored by the output of custom logic delay module 4 (U11-03).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-15	Delay of logic delay module 4	4449	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the delay of logic delay module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-16	Execution sequence of level-to-pulse conversion module 1	3990	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of level-to-pulse conversion module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-17	Function selection for level-to-pulse conversion module 1	4450	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Level to pulse 1：Pulse to level								
	Description： Defines the function for level-to-pulse conversion module 1.								

	Value description: 0: Level-to-pulse - The output of U11-04 [Output of custom level-to-pulse conversion module 1] keeps a pulse with width defined by P4-19 [Pulse output time of level-to-pulse conversion module 1] upon the rising edge of P4-18 [Input of level-to-pulse conversion module B]. If P4-18 [Input of level-to-pulse conversion module B] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output of U11-04 [Output of level-to-pulse conversion module 1] is set to high level upon the rising edge of P4-18 [Input of level-to-pulse conversion module A], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-18	Input of level-to-pulse conversion module 1	4451	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the input of level-to-pulse conversion module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-19	Pulse output time of level-to-pulse conversion module 1	4452	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the pulse output time of level-to-pulse conversion module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-20	Execution sequence of level-to-pulse conversion module 2	3991	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of level-to-pulse conversion module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-21	Function selection for level-to-pulse conversion	4453	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	module 2								
	Value: 0: Level to pulse 1: Pulse to level								
	Description: Defines the function for level-to-pulse conversion module 2. Value description: 0: Level-to-pulse - The output of U11-05 [Output of custom level-to-pulse conversion module 2] keeps a pulse with width defined by P4-23 [Pulse output time of level-to-pulse conversion module 2] upon the rising edge of P4-22 [Input of level-to-pulse conversion module 2]. If P4-22 [Input of level-to-pulse conversion module 2] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output of U11-05 [Output of level-to-pulse conversion module 2] is set to high level upon the rising edge of P4-22 [Input of level-to-pulse conversion module 2], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-22	Input of level-to-pulse conversion module 2	4454	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of level-to-pulse conversion module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-23	Pulse output time of level-to-pulse conversion module 2	4455	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the pulse output time of level-to-pulse conversion module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-24	Execution sequence of level-to-pulse conversion module 3	3992	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the execution sequence of level-to-pulse conversion module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-25	Function selection for level-to-pulse conversion module 3	4456	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Level to pulse 1: Pulse to level								
	Description: Defines the function for level-to-pulse conversion module 3. Value description: 0: Level-to-pulse - The output of U11-06 [Output of custom level-to-pulse conversion module 3] keeps a pulse with width defined by P4-27 [Pulse output time of level-to-pulse conversion module 3] upon the rising edge of P4-26 [Input of level-to-pulse conversion module 3]. If P4-26 [Input of level-to-pulse conversion module 3] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output of U11-06 [Output of level-to-pulse conversion module 3] is set to high level upon the rising edge of P4-26 [Input of level-to-pulse conversion module 3], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-26	Input of level-to-pulse conversion module 3	4457	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of level-to-pulse conversion module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-27	Pulse output time of level-to-pulse conversion module 3	4458	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the pulse output time of level-to-pulse conversion module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P4-28	Execution sequence of level-to-pulse conversion module 4	3993	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of level-to-pulse conversion module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-29	Function selection for level-to-pulse conversion module 4	4459	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Level to pulse 1: Pulse to level								
	Description: Defines the function for level-to-pulse conversion module 4. Value description: 0: Level-to-pulse - The output of U11-07 [Output of custom level-to-pulse conversion module 4] keeps a pulse with width defined by P4-31 [Pulse output time of level-to-pulse conversion module 4] upon the rising edge of P4-30 [Input of level-to-pulse conversion module 4]. If P4-30 [Input of level-to-pulse conversion module 4] is 0, the output is 0 immediately, regardless of whether the pulse duration time is reached. 1: Pulse-to-level - The output of U11-07 [Output of level-to-pulse conversion module 4] is set to high level upon the rising edge of P4-30 [Input of level-to-pulse conversion module 4], and then set to low level upon the second rising edge. When the number of pulses is an odd number, high level is outputted. When the number of pulses is an even number, low level is outputted.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-30	Input of level-to-pulse conversion module 4	4460	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of level-to-pulse conversion module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-31	Pulse output time of level-to-pulse	4461	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real

	conversion module 4								time
	Description: Defines the pulse output time of level-to-pulse conversion module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-32	Execution sequence of filter module 1	4010	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-33	Function selection for filter module 1	4518	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 1. Value description: 0: Enabled - The output of U19-15 [Output of custom filter module 1] is the filtered value of P4-35 [Filter time of filter module 1], with P4-34 [Input of filter module 1] as the data source. 1: Disabled - The output of U19-15 [Output of custom filter module 1] is P4-34 [Input of filter module 1]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-34	Input of filter module 1	4519	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-35	Filter time of filter	4520	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 1		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-36	Execution sequence of filter module 2	4011	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-37	Function selection for filter module 2	4521	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 2. Value description: 0: Enabled - The output of U19-16 [Output of custom filter module 2] is the filtered value of P4-39 [Filter time of filter module 2], with P4-38 [Input of filter module 2] as the data source. 1: Disabled - The output of U19-16 [Output of custom filter module 1] is P4-38 [Input of filter module 2]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-38	Input of filter module 2	4522	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-39	Filter time of filter	4523	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 2		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-40	Execution sequence of filter module 3	4012	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-41	Function selection for filter module 3	4524	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 3. Value description: 0: Enabled - The output of U19-17 [Output of custom filter module 3] is the filtered value of P4-43 [Filter time of filter module 3], with P4-42 [Input of filter module 3] as the data source. 1: Disabled - The output of U19-17 [Output of custom filter module 3] is P4-42 [Input of filter module 3]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-42	Input of filter module 3	4525	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-43	Filter time of filter	4526	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 3		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-44	Execution sequence of filter module 4	4013	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-45	Function selection for filter module 4	4527	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 4. Value description: 0: Enabled - The output of U19-18 [Output of custom filter module 4] is the filtered value of P4-47 [Filter time of filter module 4], with P4-46 [Input of filter module 4] as the data source. 1: Disabled - The output of U19-18 [Output of custom filter module 4] is P4-46 [Input of filter module 4]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-46	Input of filter module 4	4528	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-47	Filter time of filter	4529	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 4		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-48	Execution sequence of filter module 5	4014	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-49	Function selection for filter module 5	4530	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 5. Value description: 0: Enabled - The output of U19-19 [Output of custom filter module 5] is the filtered value of P4-51 [Filter time of filter module 5], with P4-50 [Input of filter module 5] as the data source. 1: Disabled - The output of U19-19 [Output of custom filter module 5] is P4-50 [Input of filter module 5]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-50	Input of filter module 5	4531	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-51	Filter time of filter	4532	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 5		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-52	Execution sequence of filter module 6	4015	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-53	Function selection for filter module 6	4533	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 6. Value description: 0: Enabled - The output of U19-20 [Output of custom filter module 6] is the filtered value of P4-55 [Filter time of filter module 6], with P4-54 [Input of filter module 6] as the data source. 1: Disabled - The output of U19-20 [Output of custom filter module 6] is P4-54 [Input of filter module 6]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-54	Input of filter module 6	4534	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-55	Filter time of filter	4535	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 6		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-56	Execution sequence of filter module 7	4016	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-57	Function selection for filter module 7	4536	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 7. Value description: 0: Enabled - The output of U19-21 [Output of custom filter module 7] is the filtered value of P4-59 [Filter time of filter module 7], with P4-58 [Input of filter module 7] as the data source. 1: Disabled - The output of U19-21 [Output of custom filter module 7] is P4-58 [Input of filter module 7]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-58	Input of filter module 7	4537	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-59	Filter time of filter	4538	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 7		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-60	Execution sequence of filter module 8	4017	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of filter module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-61	Function selection for filter module 8	4539	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Enabled 1: Disabled Others: B connector								
	Description: Defines the function of filter module 8. Value description: 0: Enabled - The output of U19-22 [Output of custom filter module 8] is the filtered value of P4-63 [Filter time of filter module 8], with P4-64 [Input of filter module 8] as the data source. 1: Disabled - The output of U19-22 [Output of custom filter module 8] is P4-64 [Input of filter module 8]. Others: B connector								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-62	Input of filter module 8	4540	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the data input source of filter module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-63	Filter time of filter	4541	0.000-	0.000	Unsigned	0.001	Real time	General	Effective

	module 8		60.000		16 bit		changes	user	in real time
	Description: Defines the filter time of filter module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-64	Execution sequence of RS flip-flop module 1	4064	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of RS flip-flop module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-65	Setting input of RS flip-flop module 1	4831	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the setting input of RS flip-flop module 1 Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 1 (U11-08) and reset flag of custom RS flip-flop module 1 (U11-09) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-66	Reset input of RS flip-flop module 1	4832	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of RS flip-flop module 1. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0.								

	When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 1 (U11-08) and reset flag of custom RS flip-flop module 1 (U11-09) are always opposite.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-67	Execution sequence of RS flip-flop module 2	4065	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of RS flip-flop module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-68	Setting input of RS flip-flop module 2	4833	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the setting input of RS flip-flop module 2. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 2 (U11-10) and reset flag of custom RS flip-flop module 2 (U11-11) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-69	Reset input of RS flip-flop module 2	4834	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of RS flip-flop module 2. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1.								

	The values of the setting flag of custom RS flip-flop module 2 (U11-10) and reset flag of custom RS flip-flop module 2 (U11-11) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-70	Execution sequence of RS flip-flop module 3	4066	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of RS flip-flop module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-71	Setting input of RS flip-flop module 3	4835	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the setting input of RS flip-flop module 3. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 3 (U11-12) and reset flag of custom RS flip-flop module 3 (U11-13) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-72	Reset input of RS flip-flop module 3	4836	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of RS flip-flop module 3. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 3 (U11-12) and reset flag of custom RS flip-flop module 3 (U11-								

	13) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-73	Execution sequence of RS flip-flop module 4	4067	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of RS flip-flop module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-74	Setting input of RS flip-flop module 4	4837	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the setting input of RS flip-flop module 4. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 4 (U11-14) and reset flag of custom RS flip-flop module 4 (U11-15) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-75	Reset input of RS flip-flop module 4	4838	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of RS flip-flop module 4. Note: When both the setting input and reset input are set to 0, the output remains at the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom RS flip-flop module 4 (U11-14) and reset flag of custom RS flip-flop module 4 (U11-15) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-76	Execution sequence of D flip-flop module 1	4097	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of D flip-flop module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-77	Input of D flip-flop module 1	4964	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of D flip-flop module 1. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 1 (U11-16) and reset flag of custom D flip-flop module 1 (U11-17) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-78	Reset input of D flip-flop module 1	4965	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of D flip-flop module 1. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 1 (U11-16) and reset flag of custom D flip-flop module 1 (U11-								

	17) are always opposite.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-79	Setting input of D flip-flop module 1	4966	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the setting input of D flip-flop module 1. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 1 (U11-16) and reset flag of custom D flip-flop module 1 (U11-17) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-80	Clock input of D flip-flop module 1	4967	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the clock input of D flip-flop module 1. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 1 (U11-16) and reset flag of custom D flip-flop module 1 (U11-17) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-81	Execution sequence of D flip-flop module 2	4098	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the execution sequence of D flip-flop module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-82	Input of D flip-flop module 2	4968	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of D flip-flop module 2. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 2 (U11-18) and reset flag of custom D flip-flop module 2 (U11-19) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-83	Reset input of D flip-flop module 2	4969	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of D flip-flop module 2. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 2 (U11-18) and reset flag of custom D flip-flop module 2 (U11-19) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-84	Setting input of D flip-flop module 2	4970	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

									time
	Value: 0: Invalid Others: B connector								
	Description: Defines the setting input of D flip-flop module 2. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 2 (U11-18) and reset flag of custom D flip-flop module 2 (U11-19) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-85	Clock input of D flip-flop module 2	4971	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the clock input of D flip-flop module 2. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 2 (U11-18) and reset flag of custom D flip-flop module 2 (U11-19) are always opposite.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-86	Execution sequence of D flip-flop module 3	4099	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of D flip-flop module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-87	Input of D flip-flop	4972	Refer to	0	Unsigned	1	Real time	General	Effective

	module 3		"Value"		16 bit		changes	user	in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the input of D flip-flop module 3. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 3 (U11-20) and reset flag of custom D flip-flop module 3 (U11-21) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-88	Reset input of D flip-flop module 3	4973	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the reset input of D flip-flop module 3. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 3 (U11-20) and reset flag of custom D flip-flop module 3 (U11-21) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-89	Setting input of D flip-flop module 3	4974	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description:								

	Defines the setting input of D flip-flop module 3. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 3 (U11-20) and reset flag of custom D flip-flop module 3 (U11-21) are always opposite.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-90	Clock input of D flip-flop module 3	4975	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the clock input of D flip-flop module 3. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 3 (U11-20) and reset flag of custom D flip-flop module 3 (U11-21) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-91	Execution sequence of D flip-flop module 4	4100	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of D flip-flop module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-92	Input of D flip-flop module 4	4976	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								

	Description： Defines the input of D flip-flop module 4. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 4 (U11-22) and reset flag of custom D flip-flop module 4 (U11-23) are always opposite.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-93	Reset input of D flip-flop module 4	4977	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the reset input of D flip-flop module 4. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 4 (U11-22) and reset flag of custom D flip-flop module 4 (U11-23) are always opposite.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-94	Setting input of D flip-flop module 4	4978	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： B connector								
	Description： Defines the setting input of D flip-flop module 4. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value.								

	When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 4 (U11-22) and reset flag of custom D flip-flop module 4 (U11-23) are always opposite.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P4-95	Clock input of D flip-flop module 4	4979	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: B connector								
	Description: Defines the clock input of D flip-flop module 4. Note: When both the setting input and reset input are set to 0, the output equal to the input upon the rising edge of the clock input. is equal to the rising edge of the clock input. Otherwise, the output remains the current value. When the setting input is set to 1 and the reset input is set to 0, the setting flag is 1 and the reset flag is 0. When the reset input is set to 1, the setting flag is 0 and the reset flag is 1. The values of the setting flag of custom D flip-flop module 4 (U11-22) and reset flag of custom D flip-flop module 4 (U11-23) are always opposite.								

P5 Custom control function block 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-00	Execution sequence of pulse width generator module 1	4089	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of pulse width generator module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-01	Function selection for pulse width generator module 1	4932	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Pulse extended								

	1： Pulse shortened
	Description： Defines the function selection for pulse width generator module 1. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 1. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 1, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 1. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 1, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 1 (U11-24).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-02	Input of pulse width generator module 1	4933	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： B connector								
	Description： Defines the input of pulse width generator module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-03	Holding time of pulse width generator module 1	4934	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the holding time of pulse width generator module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-04	Pulse extender reset input of pulse width generator module 1	4935	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： B connector								
	Description：								

	Defines pulse extender reset input of pulse width generator module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-05	Execution sequence of pulse width generator module 2	4090	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of pulse width generator module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-06	Function selection for pulse width generator module 2	4936	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Pulse extended 1: Pulse shortened								
	Description: Defines the function selection for pulse width generator module 2. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 2. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 2, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 2. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 2, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 2 (U11-25).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-07	Input of pulse width generator module 2	4937	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines the input of pulse width generator module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P5-08	Holding time of pulse width generator module 2	4938	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the holding time of pulse width generator module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-09	Pulse extender reset input of pulse width generator module 2	4939	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines pulse extender reset input of pulse width generator module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-10	Execution sequence of pulse width generator module 3	4091	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of pulse width generator module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-11	Function selection for pulse width generator module 3	4940	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Pulse extended 1: Pulse shortened								
	Description: Defines the function selection for pulse width generator module 3. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 3. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 3, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1.								

	1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 3. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 3, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 3 (U11-26).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-12	Input of pulse width generator module 3	4941	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines the input of pulse width generator module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-13	Holding time of pulse width generator module 3	4942	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the holding time of pulse width generator module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-14	Pulse extender reset input of pulse width generator module 3	4943	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines pulse extender reset input of pulse width generator module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-15	Execution sequence of pulse width generator module 4	4092	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the execution sequence of pulse width generator module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-16	Function selection for pulse width generator module 4	4944	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Pulse extended 1: Pulse shortened								
	Description: Defines the function selection for pulse width generator module 4. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 4. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 4, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 4. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 4, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 4 (U11-27).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-17	Input of pulse width generator module 4	4945	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines the input of pulse width generator module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-18	Holding time of pulse width generator module 4	4946	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the holding time of pulse width generator module 4.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P5-19	Pulse extender reset input of pulse width generator module 4	4947	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines pulse extender reset input of pulse width generator module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-20	Execution sequence of pulse width generator module 5	4093	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of pulse width generator module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-21	Function selection for pulse width generator module 5	4948	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Pulse extended 1: Pulse shortened								
	Description: Defines the function selection for pulse width generator module 5. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 5. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 5, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 5. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 5, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 5 (U11-28).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P5-22	Input of pulse width generator module 5	4949	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines the input of pulse width generator module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-23	Holding time of pulse width generator module 5	4950	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the holding time of pulse width generator module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-24	Pulse extender reset input of pulse width generator module 5	4951	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines pulse extender reset input of pulse width generator module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-25	Execution sequence of pulse width generator module 6	4094	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of pulse width generator module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-26	Function selection for pulse width generator module	4952	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	6								
	Value: 0: Pulse extended 1: Pulse shortened								
	Description: Defines the function selection for pulse width generator module 6. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 6. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 6, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 6. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 6, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 6 (U11-29).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-27	Input of pulse width generator module 6	4953	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: B connector								
	Description: Defines the input of pulse width generator module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-28	Holding time of pulse width generator module 6	4954	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the holding time of pulse width generator module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-29	Pulse extender reset input of pulse width generator module 6	4955	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 Others: B connector
	Description: Defines pulse extender reset input of pulse width generator module 6.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-30	Execution sequence of pulse width generator module 7	4095	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of pulse width generator module 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-31	Function selection for pulse width generator module 7	4956	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Pulse extended 1: Pulse shortened								
	Description: Defines the function selection for pulse width generator module 7. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 7. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 7, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 7. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 7, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 7 (U11-30).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-32	Input of pulse width generator module 7	4957	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0								

	Others： B connector								
	Description： Defines the input of pulse width generator module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-33	Holding time of pulse width generator module 7	4958	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the holding time of pulse width generator module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-34	Pulse extender reset input of pulse width generator module 7	4959	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： B connector								
	Description： Defines pulse extender reset input of pulse width generator module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-35	Execution sequence of pulse width generator module 8	4096	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of pulse width generator module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-36	Function selection for pulse width generator module 8	4960	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Pulse extended 1： Pulse shortened								
	Description：								

	Defines the function selection for pulse width generator module 8. Value description: 0: Pulse extended - The output is set to 1 upon the rising edge of the input of pulse width generator module 8. When the input is 0 and the pulse duration reaches the holding time of pulse width generator module 8, the output is set to 0. You can set the output to 0 at any time by setting the reset input to 1. 1: Pulse shortened - The output is set to 1 upon the rising edge of the input of pulse width generator module 8. When the input is 0 or the pulse duration reaches the holding time of pulse width generator module 8, the output is set to 0. Note: It can be monitored through the output of the custom pulse width generator module 8 (U11-31).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-37	Input of pulse width generator module 8	4961	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： B connector								
	Description： Defines the input of pulse width generator module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-38	Holding time of pulse width generator module 8	4962	0.00-600.00	0.00	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description： Defines the holding time of pulse width generator module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P5-39	Pulse extender reset input of pulse width generator module 8	4963	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others： B connector								
	Description： Defines pulse extender reset input of pulse width generator module 8.								

P6 Custom arithmetic function block 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-00	Execution sequence of ADD/SUBTRACT module 1	3994	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of ADD/SUBTRACT module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-01	Input 1 of ADD/SUBTRACT module 1 (ADD)	4462	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module 1 (ADD). Note: Output of the custom ADD/SUBTRACT module 1 (U19-23) = Input 1 of ADD/SUBTRACT module 1 (ADD) (P6-01) + Input 2 of ADD/SUBTRACT module 1 (ADD) (P6-02) + Input 3 of ADD/SUBTRACT module 1 (ADD) (P6-03) - Input 4 of ADD/SUBTRACT module 1 (SUBTRACT) (P6-04).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-02	Input 2 of ADD/SUBTRACT module 1 (ADD)	4463	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of ADD/SUBTRACT module 1 (ADD). Note: Output of the custom ADD/SUBTRACT module 1 (U19-23) = Input 1 of ADD/SUBTRACT module 1 (ADD) (P6-01) + Input 2 of ADD/SUBTRACT module 1 (ADD) (P6-02) + Input 3 of ADD/SUBTRACT module 1 (ADD) (P6-03) - Input 4 of ADD/SUBTRACT module 1 (SUBTRACT) (P6-04).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P6-03	Input 3 of ADD/SUBTRACT module 1 (ADD)	4464	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 3 of ADD/SUBTRACT module 1 (ADD). Note: Output of the custom ADD/SUBTRACT module 1 (U19-23) = Input 1 of ADD/SUBTRACT module 1 (ADD) (P6-01) + Input 2 of ADD/SUBTRACT module 1 (ADD) (P6-02) + Input 3 of ADD/SUBTRACT module 1 (ADD) (P6-03) - Input 4 of ADD/SUBTRACT module 1 (SUBTRACT) (P6-04).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-04	Input 4 of ADD/SUBTRACT module 1 (SUBTRACT)	4465	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module 1 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 1 (U19-23) = Input 1 of ADD/SUBTRACT module 1 (ADD) (P6-01) + Input 2 of ADD/SUBTRACT module 1 (ADD) (P6-02) + Input 3 of ADD/SUBTRACT module 1 (ADD) (P6-03) - Input 4 of ADD/SUBTRACT module 1 (SUBTRACT) (P6-04).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-05	Execution sequence of ADD/SUBTRACT module 2	3995	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of ADD/SUBTRACT module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-06	Input 1 of ADD/SUBTRACT module 2 (ADD)	4466	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Invalid Others： K connector
	Description： Defines the input 1 of ADD/SUBTRACT module 2 (ADD). Note: Output of the custom ADD/SUBTRACT module 2 (U19-24) = Input 1 of ADD/SUBTRACT module 2 (ADD) (P6-06) + Input 2 of ADD/SUBTRACT module 2 (ADD) (P6-07) + Input 3 of ADD/SUBTRACT module 2 (ADD) (P6-08) - Input 4 of ADD/SUBTRACT module 2 (SUBTRACT) (P6-09).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-07	Input 2 of ADD/SUBTRACT module 2 (ADD)	4467	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 2 of ADD/SUBTRACT module 2 (ADD). Note: Output of the custom ADD/SUBTRACT module 2 (U19-24) = Input 1 of ADD/SUBTRACT module 2 (ADD) (P6-06) + Input 2 of ADD/SUBTRACT module 2 (ADD) (P6-07) + Input 3 of ADD/SUBTRACT module 2 (ADD) (P6-08) - Input 4 of ADD/SUBTRACT module 2 (SUBTRACT) (P6-09).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-08	Input 3 of ADD/SUBTRACT module 2 (ADD)	4468	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 3 of ADD/SUBTRACT module 2 (ADD). Note: Output of the custom ADD/SUBTRACT module 2 (U19-24) = Input 1 of ADD/SUBTRACT module 2 (ADD) (P6-06) + Input 2 of ADD/SUBTRACT module 2 (ADD) (P6-07) + Input 3 of ADD/SUBTRACT module 2 (ADD) (P6-08) - Input 4 of ADD/SUBTRACT module 2 (SUBTRACT) (P6-09).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P6-09	Input 4 of ADD/SUBTRACT module 2 (SUBTRACT)	4469	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module 2 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 2 (U19-24) = Input 1 of ADD/SUBTRACT module 2 (ADD) (P6-06) + Input 2 of ADD/SUBTRACT module 2 (ADD) (P6-07) + Input 3 of ADD/SUBTRACT module 2 (ADD) (P6-08) - Input 4 of ADD/SUBTRACT module 2 (SUBTRACT) (P6-09).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-10	Execution sequence of ADD/SUBTRACT module 3	3996	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of ADD/SUBTRACT module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-11	Input 1 of ADD/SUBTRACT module 3 (ADD)	4470	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module 3 (ADD). Note: Output of the custom ADD/SUBTRACT module 3 (U19-25) = Input 1 of ADD/SUBTRACT module 3 (ADD) (P6-11) + Input 2 of ADD/SUBTRACT module 3 (ADD) (P6-12) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-13) - Input 4 of ADD/SUBTRACT module 3 (SUBTRACT) (P6-14).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-12	Input 2 of ADD/SUBTRACT module 3 (ADD)	4471	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Invalid Others: K connector
	Description: Defines the input 2 of ADD/SUBTRACT module 3 (ADD). Note: Output of the custom ADD/SUBTRACT module 3 (U19-25) = Input 1 of ADD/SUBTRACT module 3 (ADD) (P6-11) + Input 2 of ADD/SUBTRACT module 3 (ADD) (P6-12) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-13) - Input 4 of ADD/SUBTRACT module 3 (SUBTRACT) (P6-14).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-13	Input 3 of ADD/SUBTRACT module 3 (ADD)	4472	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 3 of ADD/SUBTRACT module 3 (ADD). Note: Output of the custom ADD/SUBTRACT module 3 (U19-25) = Input 1 of ADD/SUBTRACT module 3 (ADD) (P6-11) + Input 2 of ADD/SUBTRACT module 3 (ADD) (P6-12) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-13) - Input 4 of ADD/SUBTRACT module 3 (SUBTRACT) (P6-14).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-14	Input 4 of ADD/SUBTRACT module 3 (SUBTRACT)	4473	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module 3 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 3 (U19-25) = Input 1 of ADD/SUBTRACT module 3 (ADD) (P6-11) + Input 2 of ADD/SUBTRACT module 3 (ADD) (P6-12) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-13) - Input 4 of ADD/SUBTRACT module 3 (SUBTRACT) (P6-14).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P6-15	Execution sequence of ADD/SUBTRACT module 4	3997	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of ADD/SUBTRACT module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-16	Input 1 of ADD/SUBTRACT module 4 (ADD)	4474	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module 4 (ADD). Note: Output of the custom ADD/SUBTRACT module 4 (U19-26) = Input 1 of ADD/SUBTRACT module 4 (ADD) (P6-16) + Input 2 of ADD/SUBTRACT module 4 (ADD) (P6-17) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-18) - Input 4 of ADD/SUBTRACT module 4 (SUBTRACT) (P6-19).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-17	Input 2 of ADD/SUBTRACT module 4 (ADD)	4475	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of ADD/SUBTRACT module 4 (ADD). Note: Output of the custom ADD/SUBTRACT module 4 (U19-26) = Input 1 of ADD/SUBTRACT module 4 (ADD) (P6-16) + Input 2 of ADD/SUBTRACT module 4 (ADD) (P6-17) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-18) - Input 4 of ADD/SUBTRACT module 4 (SUBTRACT) (P6-19).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-18	Input 3 of ADD/SUBTRACT module 4 (ADD)	4476	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: Invalid Others: K connector
	Description: Defines the input 3 of ADD/SUBTRACT module 4 (ADD). Note: Output of the custom ADD/SUBTRACT module 4 (U19-26) = Input 1 of ADD/SUBTRACT module 4 (ADD) (P6-16) + Input 2 of ADD/SUBTRACT module 4 (ADD) (P6-17) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-18) - Input 4 of ADD/SUBTRACT module 4 (SUBTRACT) (P6-19).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-19	Input 4 of ADD/SUBTRACT module 4 (SUBTRACT)	4477	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module 4 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 4 (U19-26) = Input 1 of ADD/SUBTRACT module 4 (ADD) (P6-16) + Input 2 of ADD/SUBTRACT module 4 (ADD) (P6-17) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-18) - Input 4 of ADD/SUBTRACT module 4 (SUBTRACT) (P6-19).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-20	Execution sequence of ADD/SUBTRACT module 5	3998	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of ADD/SUBTRACT module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-21	Input 1 of ADD/SUBTRACT module 5 (ADD)	4478	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description： Defines the input 1 of ADD/SUBTRACT module 5 (ADD). Note: Output of the custom ADD/SUBTRACT module 5 (U19-27) = Input 1 of ADD/SUBTRACT module 5 (ADD) (P6-21) + Input 2 of ADD/SUBTRACT module 5 (ADD) (P6-22) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-23) - Input 5 of ADD/SUBTRACT module 5 (SUBTRACT) (P6-24).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-22	Input 2 of ADD/SUBTRACT module 5 (ADD)	4479	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 2 of ADD/SUBTRACT module 5 (ADD). Note: Output of the custom ADD/SUBTRACT module 5 (U19-27) = Input 1 of ADD/SUBTRACT module 5 (ADD) (P6-21) + Input 2 of ADD/SUBTRACT module 5 (ADD) (P6-22) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-23) - Input 5 of ADD/SUBTRACT module 5 (SUBTRACT) (P6-24).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-23	Input 3 of ADD/SUBTRACT module 5 (ADD)	4480	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 3 of ADD/SUBTRACT module 5 (ADD). Note: Output of the custom ADD/SUBTRACT module 5 (U19-27) = Input 1 of ADD/SUBTRACT module 5 (ADD) (P6-21) + Input 2 of ADD/SUBTRACT module 5 (ADD) (P6-22) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-23) - Input 5 of ADD/SUBTRACT module 5 (SUBTRACT) (P6-24).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-24	Input 4 of ADD/SUBTRACT module 5	4481	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	(SUBTRACT)								
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 4 of ADD/SUBTRACT module 5 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 5 (U19-27) = Input 1 of ADD/SUBTRACT module 5 (ADD) (P6-21) + Input 2 of ADD/SUBTRACT module 5 (ADD) (P6-22) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-23) - Input 5 of ADD/SUBTRACT module 5 (SUBTRACT) (P6-24).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-25	Execution sequence of ADD/SUBTRACT module 6	3999	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of ADD/SUBTRACT module 6.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-26	Input 1 of ADD/SUBTRACT module 6 (ADD)	4482	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module 6 (ADD). Note: Output of the custom ADD/SUBTRACT module 6 (U19-28) = Input 1 of ADD/SUBTRACT module 6 (ADD) (P6-26) + Input 2 of ADD/SUBTRACT module 6 (ADD) (P6-27) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-28) - Input 6 of ADD/SUBTRACT module 6 (SUBTRACT) (P6-29).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-27	Input 2 of ADD/SUBTRACT module 6 (ADD)	4483	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description： Defines the input 2 of ADD/SUBTRACT module 6 (ADD). Note: Output of the custom ADD/SUBTRACT module 6 (U19-28) = Input 1 of ADD/SUBTRACT module 6 (ADD) (P6-26) + Input 2 of ADD/SUBTRACT module 6 (ADD) (P6-27) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-28) - Input 6 of ADD/SUBTRACT module 6 (SUBTRACT) (P6-29).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-28	Input 3 of ADD/SUBTRACT module 6 (ADD)	4484	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 3 of ADD/SUBTRACT module 6 (ADD). Note: Output of the custom ADD/SUBTRACT module 6 (U19-28) = Input 1 of ADD/SUBTRACT module 6 (ADD) (P6-26) + Input 2 of ADD/SUBTRACT module 6 (ADD) (P6-27) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-28) - Input 6 of ADD/SUBTRACT module 6 (SUBTRACT) (P6-29).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-29	Input 4 of ADD/SUBTRACT module 6 (SUBTRACT)	4485	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 4 of ADD/SUBTRACT module 6 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 6 (U19-28) = Input 1 of ADD/SUBTRACT module 6 (ADD) (P6-26) + Input 2 of ADD/SUBTRACT module 6 (ADD) (P6-27) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-28) - Input 6 of ADD/SUBTRACT module 6 (SUBTRACT) (P6-29).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-30	Execution sequence of ADD/SUBTRACT	4000	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real

	module 7								time
	Description: Defines the execution sequence of ADD/SUBTRACT module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-31	Input 1 of ADD/SUBTRACT module 7 (ADD)	4486	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 1 of ADD/SUBTRACT module 7 (ADD). Note: Output of the custom ADD/SUBTRACT module 7 (U19-29) = Input 1 of ADD/SUBTRACT module 7 (ADD) (P6-31) + Input 2 of ADD/SUBTRACT module 7 (ADD) (P6-32) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-33) - Input 7 of ADD/SUBTRACT module 7 (SUBTRACT) (P6-34).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-32	Input 2 of ADD/SUBTRACT module 7 (ADD)	4487	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of ADD/SUBTRACT module 7 (ADD). Note: Output of the custom ADD/SUBTRACT module 7 (U19-29) = Input 1 of ADD/SUBTRACT module 7 (ADD) (P6-31) + Input 2 of ADD/SUBTRACT module 7 (ADD) (P6-32) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-33) - Input 7 of ADD/SUBTRACT module 7 (SUBTRACT) (P6-34).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-33	Input 3 of ADD/SUBTRACT module 7 (ADD)	4488	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								

	Description： Defines the input 3 of ADD/SUBTRACT module 7 (ADD). Note: Output of the custom ADD/SUBTRACT module 7 (U19-29) = Input 1 of ADD/SUBTRACT module 7 (ADD) (P6-31) + Input 2 of ADD/SUBTRACT module 7 (ADD) (P6-32) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-33) - Input 7 of ADD/SUBTRACT module 7 (SUBTRACT) (P6-34).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-34	Input 4 of ADD/SUBTRACT module 7 (SUBTRACT)	4489	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 4 of ADD/SUBTRACT module 7 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 7 (U19-29) = Input 1 of ADD/SUBTRACT module 7 (ADD) (P6-31) + Input 2 of ADD/SUBTRACT module 7 (ADD) (P6-32) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-33) - Input 7 of ADD/SUBTRACT module 7 (SUBTRACT) (P6-34).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-35	Execution sequence of ADD/SUBTRACT module 8	4001	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of ADD/SUBTRACT module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-36	Input 1 of ADD/SUBTRACT module 8 (ADD)	4490	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input 1 of ADD/SUBTRACT module 8 (ADD). Note:								

	Output of the custom ADD/SUBTRACT module 8 (U19-30) = Input 1 of ADD/SUBTRACT module 8 (ADD) (P6-36) + Input 2 of ADD/SUBTRACT module 8 (ADD) (P6-37) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-38) - Input 8 of ADD/SUBTRACT module 8 (SUBTRACT) (P6-39).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-37	Input 2 of ADD/SUBTRACT module 8 (ADD)	4491	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 2 of ADD/SUBTRACT module 8 (ADD). Note: Output of the custom ADD/SUBTRACT module 8 (U19-30) = Input 1 of ADD/SUBTRACT module 8 (ADD) (P6-36) + Input 2 of ADD/SUBTRACT module 8 (ADD) (P6-37) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-38) - Input 8 of ADD/SUBTRACT module 8 (SUBTRACT) (P6-39).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-38	Input 3 of ADD/SUBTRACT module 8 (ADD)	4492	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid Others: K connector								
	Description: Defines the input 3 of ADD/SUBTRACT module 8 (ADD). Note: Output of the custom ADD/SUBTRACT module 8 (U19-30) = Input 1 of ADD/SUBTRACT module 8 (ADD) (P6-36) + Input 2 of ADD/SUBTRACT module 8 (ADD) (P6-37) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-38) - Input 8 of ADD/SUBTRACT module 8 (SUBTRACT) (P6-39).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-39	Input 4 of ADD/SUBTRACT module 8 (SUBTRACT)	4493	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the input 4 of ADD/SUBTRACT module 8 (SUBTRACT). Note: Output of the custom ADD/SUBTRACT module 8 (U19-30) = Input 1 of ADD/SUBTRACT module 8 (ADD) (P6-36) + Input 2 of ADD/SUBTRACT module 8 (ADD) (P6-37) + Input 3 of ADD/SUBTRACT module 3 (ADD) (P6-38) - Input 8 of ADD/SUBTRACT module 8 (SUBTRACT) (P6-39).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-40	Execution sequence of MULTIPLY/DIVIDE module 1	4002	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of MULTIPLY/DIVIDE module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-41	Input 1 of MULTIPLY/DIVIDE module 1 (MULTIPLY)	4494	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Inhibited Others： K connector								
	Description： Defines input 1 of MULTIPLY/DIVIDE module 1. Note: Output of custom MULTIPLY/DIVIDE module 1 (U19-31) = Input 1 x Input 2 (P6-42)/Input 3 (P6-43). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 1 is set to 1 (U11-32).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-42	Input 2 of MULTIPLY/DIVIDE module 1 (MULTIPLY)	4495	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Not used in calculation Others： K connector								
	Description： Defines input 2 of MULTIPLY/DIVIDE module 1 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 1 (U19-31) = Input 1 x Input 2 (P6-42)/Input 3 (P6-43). If the value of input 3 is								

	0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 1 is set to 1 (U11-32).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-43	Input 3 of MULTIPLY/DIVIDE module 1 (DIVIDE)	4496	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 3 of MULTIPLY/DIVIDE module 1 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 1 (U19-31) = Input 1 x Input 2 (P6-42)/Input 3 (P6-43). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 1 is set to 1 (U11-32).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-44	Execution sequence of MULTIPLY/DIVIDE module 2	4003	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of MULTIPLY/DIVIDE module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-45	Input 1 of MULTIPLY/DIVIDE module 2 (MULTIPLY)	4497	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines input 1 of MULTIPLY/DIVIDE module 2. Note: Output of custom MULTIPLY/DIVIDE module 2 (U19-32) = Input 1 x Input 2 (P6-46)/Input 3 (P6-47). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 2 is set to 1 (U11-33).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-46	Input 2 of MULTIPLY/DIVIDE module 2 (MULTIPLY)	4498	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Not used in calculation Others： K connector
	Description： Defines input 2 of MULTIPLY/DIVIDE module 2 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 2 (U19-32) = Input 1 x Input 2 (P6-46)/Input 3 (P6-47). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 2 is set to 1 (U11-33).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-47	Input 3 of MULTIPLY/DIVIDE module 2 (DIVIDE)	4499	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Not used in calculation Others： K connector								
	Description： Defines input 3 of MULTIPLY/DIVIDE module 2 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 2 (U19-32) = Input 1 x Input 2 (P6-46)/Input 3 (P6-47). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 2 is set to 1 (U11-33).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-48	Execution sequence of MULTIPLY/DIVIDE module 3	4004	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of MULTIPLY/DIVIDE module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-49	Input 1 of MULTIPLY/DIVIDE module 3 (MULTIPLY)	4500	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disabled Others： K connector								
	Description： Defines input 1 of MULTIPLY/DIVIDE module 3.								

	Note: Output of custom MULTIPLY/DIVIDE module 3 (U19-33) = Input 1 x Input 2 (P6-50)/Input 3 (P6-51). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 3 is set to 1 (U11-34).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-50	Input 2 of MULTIPLY/DIVIDE module 3 (MULTIPLY)	4501	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 2 of MULTIPLY/DIVIDE module 3 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 3 (U19-33) = Input 1 x Input 2 (P6-50)/Input 3 (P6-51). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 3 is set to 1 (U11-34).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-51	Input 3 of MULTIPLY/DIVIDE module 3 (DIVIDE)	4502	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 3 of MULTIPLY/DIVIDE module 3 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 3 (U19-33) = Input 1 x Input 2 (P6-50)/Input 3 (P6-51). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 3 is set to 1 (U11-34).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-52	Execution sequence of MULTIPLY/DIVIDE module 4	4005	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of MULTIPLY/DIVIDE module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-53	Input 1 of MULTIPLY/DIVIDE	4503	Refer to	0	Unsigned	1	Real time	General	Effective in real

	module 4 (MULTIPLY)		"Value"		16 bit		changes	user	time
	Value: 0: Disabled Others: K connector								
	Description: Defines input 1 of MULTIPLY/DIVIDE module 4. Note: Output of custom MULTIPLY/DIVIDE module 4 (U19-34) = Input 1 x Input 2 (P6-54)/Input 3 (P6-55). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 4 is set to 1 (U11-35).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-54	Input 2 of MULTIPLY/DIVIDE module 4 (MULTIPLY)	4504	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 2 of MULTIPLY/DIVIDE module 4 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 4 (U19-34) = Input 1 x Input 2 (P6-54)/Input 3 (P6-55). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 4 is set to 1 (U11-35).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-55	Input 3 of MULTIPLY/DIVIDE module 4 (DIVIDE)	4505	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 3 of MULTIPLY/DIVIDE module 4 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 4 (U19-34) = Input 1 x Input 2 (P6-54)/Input 3 (P6-55). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 4 is set to 1 (U11-35).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-56	Execution sequence	4006	0-65535	0	Unsigned	1	Real time	General	Effective

	of MULTIPLY/DIVIDE module 5				16 bit		changes	user	in real time
	Description: Defines the execution sequence of MULTIPLY/DIVIDE module 5.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-57	Input 1 of MULTIPLY/DIVIDE module 5 (MULTIPLY)	4506	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines input 1 of MULTIPLY/DIVIDE module 5. Note: Output of custom MULTIPLY/DIVIDE module 5 (U19-35) = Input 1 x Input 2 (P6-58)/Input 3 (P6-59). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 5 is set to 1 (U11-36).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-58	Input 2 of MULTIPLY/DIVIDE module 5 (MULTIPLY)	4507	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 2 of MULTIPLY/DIVIDE module 5 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 5 (U19-35) = Input 1 x Input 2 (P6-58)/Input 3 (P6-59). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 5 is set to 1 (U11-36).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-59	Input 3 of MULTIPLY/DIVIDE module 5 (DIVIDE)	4508	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description:								

	Defines input 3 of MULTIPLY/DIVIDE module 5 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 5 (U19-35) = Input 1 x Input 2 (P6-58)/Input 3 (P6-59). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 5 is set to 1 (U11-36).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-60	Execution sequence of MULTIPLY/DIVIDE module 6	4007	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of MULTIPLY/DIVIDE module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-61	Input 1 of MULTIPLY/DIVIDE module 6 (MULTIPLY)	4509	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines input 1 of MULTIPLY/DIVIDE module 6. Note: Output of custom MULTIPLY/DIVIDE module 6 (U19-36) = Input 1 x Input 2 (P6-62)/Input 3 (P6-63). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 6 is set to 1 (U11-37).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-62	Input 2 of MULTIPLY/DIVIDE module 6 (MULTIPLY)	4510	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 2 of MULTIPLY/DIVIDE module 6 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 6 (U19-36) = Input 1 x Input 2 (P6-62)/Input 3 (P6-63). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 6 is set to 1 (U11-37).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P6-63	Input 3 of MULTIPLY/DIVIDE module 6 (DIVIDE)	4511	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 3 of MULTIPLY/DIVIDE module 6 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 6 (U19-36) = Input 1 x Input 2 (P6-62)/Input 3 (P6-63). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 6 is set to 1 (U11-37).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-64	Execution sequence of MULTIPLY/DIVIDE module 7	4008	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of MULTIPLY/DIVIDE module 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-65	Input 1 of MULTIPLY/DIVIDE module 7 (MULTIPLY)	4512	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Disabled Others: K connector								
	Description: Defines input 1 of MULTIPLY/DIVIDE module 7. Note: Output of custom MULTIPLY/DIVIDE module 7 (U19-37) = Input 1 x Input 2 (P6-66)/Input 3 (P6-67). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 7 is set to 1 (U11-38).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-66	Input 2 of MULTIPLY/DIVIDE module 7 (MULTIPLY)	4513	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								

	Description： Defines input 2 of MULTIPLY/DIVIDE module 7 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 7 (U19-37) = Input 1 x Input 2 (P6-66)/Input 3 (P6-67). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 7 is set to 1 (U11-38).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-67	Input 3 of MULTIPLY/DIVIDE module 7 (DIVIDE)	4514	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Not used in calculation Others： K connector								
	Description： Defines input 3 of MULTIPLY/DIVIDE module 7 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 7 (U19-37) = Input 1 x Input 2 (P6-66)/Input 3 (P6-67). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 7 is set to 1 (U11-38).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-68	Execution sequence of MULTIPLY/DIVIDE module 8	4009	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of MULTIPLY/DIVIDE module 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-69	Input 1 of MULTIPLY/DIVIDE module 8 (MULTIPLY)	4515	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Disabled Others： K connector								
	Description： Defines input 1 of MULTIPLY/DIVIDE module 8. Note: Output of custom MULTIPLY/DIVIDE module 8 (U19-38) = Input 1 x Input 2 (P6-70)/Input 3 (P6-71). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 8 is set to 1 (U11-39).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P6-70	Input 2 of MULTIPLY/DIVIDE module 8 (MULTIPLY)	4516	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 2 of MULTIPLY/DIVIDE module 8 (MULTIPLY). Note: Output of custom MULTIPLY/DIVIDE module 8 (U19-38) = Input 1 x Input 2 (P6-70)/Input 3 (P6-71). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 8 is set to 1 (U11-39).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-71	Input 3 of MULTIPLY/DIVIDE module 8 (DIVIDE)	4517	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Not used in calculation Others: K connector								
	Description: Defines input 3 of MULTIPLY/DIVIDE module 8 (DIVIDE). Note: Output of custom MULTIPLY/DIVIDE module 8 (U19-38) = Input 1 x Input 2 (P6-70)/Input 3 (P6-71). If the value of input 3 is 0, the input 3 is invalid and the divide-by-zero flag of custom MULTIPLY/DIVIDE module 8 is set to 1 (U11-39).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-72	Execution sequence of absolute value module 1	4018	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of absolute value module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-73	Input of absolute value module 1	4542	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Invalid								

	Others： K connector
	Description： Defines the input of absolute value module 1. Note: The output of the absolute value module 1 (U19-39) is the absolute value of the input. If the input is negative, the negative input flag of the custom absolute module 1 (U11-40) is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-74	Execution sequence of absolute value module 2	4019	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of absolute value module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-75	Input of absolute value module 2	4543	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： Invalid Others： K connector								
	Description： Defines the input of absolute value module 2. Note: The output of the absolute value module 2 (U19-40) is the absolute value of the input. If the input is negative, the negative input flag of the custom absolute value module 2 (U11-41) is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-76	Execution sequence of absolute value module 3	4020	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of absolute value module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-77	Input of absolute value module 3	4544	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value：								

	0：Invalid Others：K connector
	Description： Defines the input of absolute value module 3. Note: The output of the absolute value module 3 (U19-41) is the absolute value of the input. If the input is negative, the negative input flag of the custom absolute value module 3 (U11-42) is 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-78	Execution sequence of absolute value module 4	4021	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of absolute value module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-79	Input of absolute value module 4	4545	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：Invalid Others：K connector								
	Description： Defines the input of absolute value module 4. Note: The output of the absolute value module 4 (U19-42) is the absolute value of the input. If the input is negative, the negative input flag of the custom absolute value module 4 (U11-43) is 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-80	Execution sequence of comparison module 1	4022	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of comparison module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-81	Function selection for comparison module 1	4546	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value： 0： Greater than > 1： Less than < 2： Equal to =
	Description： Defines the function selection for comparison module 1. Value description: 0: Greater than > - When P6-82 > P6-83, the output of U11-44 is 1. When the output of U11-44 is 1, if P6-82 < (P6-83 - P6-84), the output of U11-44 reverts to 0. 1: Less than < - When P6-82 < P6-83， the output of U11-44 is 1. When the output of U11-44 is 1, if P6-82 > (P6-83 + P6-84), the output of U11-44 reverts to 0. 2: Equal to = - When (P6-83 - P6-84) < P6-82 < (P6-83 + P6-84), the output of U11-44 is 1. When the output of U11-44 is 1, if P6-82 > (P6-83 + 1.5 x P6-84) or P6-82 < (P6-83 - 1.5 x P6-84), the output of U11-44 reverts to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-82	Input 1 of comparison module 1	4547	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines input 1 of comparison module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-83	Input 2 of comparison module 1	4548	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines input 2 of comparison module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-84	Hysteresis input of comparison module 1	4549	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines hysteresis input of comparison module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-85	Execution sequence of comparison module 2	4023	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of comparison module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-86	Function selection for comparison module 2	4550	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to =								
	Description: Defines the function selection for comparison module 2. Value description: 0: Greater than > - When P6-87 > P6-88, the output of U11-45 is 1. When the output of U11-45 is 1, if P6-87 < (P6-88 - P6-89), the output of U11-45 reverts to 0. 1: Less than < - When P6-87 < P6-88，the output of U11-45 is 1. When the output of U11-45 is 1, if P6-87 > (P6-88 + P6-89), the output of U11-45 reverts to 0. 2: Equal to = - When (P6-88 - P6-89) < P6-87 < (P6-88 + P6-89), the output of U11-45 is 1. When the output of U11-45 is 1, if P6-87 > (P6-88 + 1.5 x P6-89) or P6-87 < (P6-88 - 1.5 x P6-89), the output of U11-45 reverts to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-87	Input 1 of comparison module 2	4551	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines input 1 of comparison module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-88	Input 2 of comparison module 2	4552	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Value: 0: 0 Others: K connector
	Description: Defines input 2 of comparison module 2.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-89	Hysteresis input of comparison module 2	4553	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines hysteresis input of comparison module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-90	Execution sequence of comparison module 3	4024	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of comparison module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-91	Function selection for comparison module 3	4554	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to =								
	Description: Defines the function selection for comparison module 3. Value description: 0: Greater than > - When P6-92 > P6-93, the output of U11-46 is 1. When the output of U11-46 is 1, if P6-92 < (P6-93 - P6-94), the output of U11-46 reverts to 0. 1: Less than < - When P6-92 < P6-93，the output of U11-46 is 1. When the output of U11-46 is 1, if P6-92 > (P6-93 + P6-94), the output of U11-46 reverts to 0. 2: Equal to = - When (P6-93 - P6-94) < P6-92 < (P6-93 + P6-94), the output of U11-46 is 1. When the output of U11-46 is 1, if P6-92 > (P6-93 + 1.5 x P6-94) or P6-92 < (P6-93 - 1.5 x P6-94), the output of U11-46 reverts to 0.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-92	Input 1 of comparison module	4555	Refer to	0	Unsigned	1	Real time	General	Effective in real

	3		"Value"		16 bit		changes	user	time
	Value: 0: 0 Others: K connector								
	Description: Defines input 1 of comparison module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-93	Input 2 of comparison module 3	4556	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines input 2 of comparison module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-94	Hysteresis input of comparison module 3	4557	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description: Defines hysteresis input of comparison module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-95	Execution sequence of comparison module 4	4025	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of comparison module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-96	Function selection for comparison module 4	4558	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Greater than > 1: Less than < 2: Equal to =								
	Description: Defines the function selection for comparison module 4.								

	Value description: 0: Greater than > - When P6-97 > P6-98, the output of U11-47 is 1. When the output of U11-47 is 1, if P6-97 < (P6-98 - P6-99), the output of U11-47 reverts to 0. 1: Less than < - When P6-97 < P6-98， the output of U11-47 is 1. When the output of U11-47 is 1, if P6-97 > (P6-98 + P6-99), the output of U11-47 reverts to 0. 2: Equal to = - When (P6-98 - P6-99) < P6-97 < (P6-98 + P6-99), the output of U11-47 is 1. When the output of U11-47 is 1, if P6-97 > (P6-98 + 1.5 x P6-99) or P6-97 < (P6-98 - 1.5 x P6-99), the output of U11-47 reverts to 0.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-97	Input 1 of comparison module 4	4559	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines input 1 of comparison module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-98	Input 2 of comparison module 4	4560	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0： 0 Others： K connector								
	Description： Defines input 2 of comparison module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P6-99	Hysteresis input of comparison module 4	4561	0-100	0	Unsigned 16 bit	0.1	Real time changes	General user	Effective in real time
	Description： Defines hysteresis input of comparison module 4.								

P7 Custom arithmetic function block 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P7-00	Execution sequence of custom inversion module 1	4109	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom inversion module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-01	Input of custom inversion module 1	5012	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom inversion module 1. Note: The output of custom inversion module 1 (U19-43) equals to the inverted input value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-02	Execution sequence of custom inversion module 2	4110	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom inversion module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-03	Input of custom inversion module 2	5013	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom inversion module 2. Note: The output of custom inversion module 2 (U19-44) equals to the inverted input value.								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P7-04	Execution sequence of custom inversion module 3	4111	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of custom inversion module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-05	Input of custom inversion module 3	5014	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the input of custom inversion module 3. Note: The output of custom inversion module 3 (U19-45) equals to the inverted input value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-06	Execution sequence of custom inversion module 4	4112	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description： Defines the execution sequence of custom inversion module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-07	Input of custom inversion module 4	5015	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value： 0：0 Others：K connector								
	Description： Defines the input of custom inversion module 4. Note: The output of custom inversion module 4 (U19-46) equals to the inverted input value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-08	Execution sequence of custom inversion module 5	4113	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom inversion module 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-09	Input of custom inversion module 5	5016	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom inversion module 5. Note: The output of custom inversion module 5 (U19-47) equals to the inverted input value.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-10	Execution sequence of custom inversion module 6	4114	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom inversion module 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-11	Input of custom inversion module 6	5017	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom inversion module 6. Note:								

	The output of custom inversion module 6 (U19-48) equals to the inverted input value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-12	Execution sequence of custom inversion module 7	4115	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom inversion module 7.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-13	Input of custom inversion module 7	5018	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom inversion module 7. Note: The output of custom inversion module 7 (U19-49) equals to the inverted input value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-14	Execution sequence of custom inversion module 8	4116	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom inversion module 8.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-15	Input of custom inversion module 8	5019	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom inversion module 8.								

	Note: The output of custom inversion module 8 (U19-50) equals to the inverted input value.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-16	Execution sequence of custom integral module 1	4101	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom integral module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-17	Input of custom integral module 1	4980	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom integral module 1. Note: Output of custom integral module 1 (U19-51) = Output of custom integral module 1 of last cycle (U19-51) + Input value (P7-17)/Integral time (P7-22)								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-18	Output upper limit of custom integral module 1	4981	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the output upper limit of custom integral module 1. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-48 (Flag for indicating the output of custom integral module 1 reaches upper limit) or U11-49 (Flag for indicating the output of custom integral module 1 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P7-19	Lower limit of custom integral module 1 output	4982	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of custom integral module 1 output. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-48 (Flag for indicating the output of custom integral module 1 reaches upper limit) or U11-49 (Flag for indicating the output of custom integral module 1 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-20	Output of custom integral module 1 enabled forcibly	4984	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable the output of custom integral module 1 forcibly. Note: When P7-20 is set to 1, U19-51 (Output of custom integral module 1) equals to P7-21.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-21	Forced setting of custom integral module 1 output	4983	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the output of custom integral module 1 forcibly.								

	Note: This parameter is active when P7-20 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-22	Integral time of custom integral module 1	4985	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the integral time of custom integral module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-23	Execution sequence of custom integral module 2	4102	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom integral module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-24	Input of custom integral module 2	4986	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom integral module 2. Note: Output of custom integral module 2 (U19-52) = Output of custom integral module 2 of last cycle (U19-52) + Input value (P7-24)/Integral time (P7-29)								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-25	Output upper limit of custom integral module 2	4987	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the output upper limit of custom integral module 2.								

	Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-50 (Flag for indicating the output of custom integral module 2 reaches upper limit) or U11-51 (Flag for indicating the output of custom integral module 2 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-26	Output lower limit of custom integral module 2	4988	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of custom integral module 2 output. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-50 (Flag for indicating the output of custom integral module 2 reaches upper limit) or U11-51 (Flag for indicating the output of custom integral module 2 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-27	Output forcing enable of custom integral module 2	4990	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable the output of custom integral module 2 forcibly. Note: When P7-27 is set to 1, U19-52 (Output of custom integral module 2) equals to P7-28.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-28	Forced setting of	4989	Refer to	0	Unsigned	1	Real time	General	Effective

	custom integral module 2 output		"Value"		16 bit		changes	user	in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the output of custom integral module 2 forcibly. Note: This parameter is active when P7-27 is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-29	Integral time of custom integral module 2	4991	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the integral time of custom integral module 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-30	Execution sequence of custom integral module 3	4103	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom integral module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-31	Input of custom integral module 3	4992	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom integral module 3. Note: Output of custom integral module 3 (U19-53) = Output of custom integral module 3 of last cycle (U19-53) + Input value (P7-31)/Integral time (P7-36)								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P7-32	Output upper limit of custom integral module 3	4993	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the output upper limit of custom integral module 3. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-52 (Flag for indicating the output of custom integral module 3 reaches upper limit) or U11-53 (Flag for indicating the output of custom integral module 3 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-33	Output lower limit of custom integral module 3	4994	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of custom integral module 3 output. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-52 (Flag for indicating the output of custom integral module 3 reaches upper limit) or U11-53 (Flag for indicating the output of custom integral module 3 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-34	Output of custom integral module 3 enabled forcibly	4996	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								

	Description: Defines whether to enable the output of custom integral module 3 forcibly. Note: When P7-34 is set to 1, U19-53 (Output of custom integral module 3) equals to P7-35.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-35	Forced setting of custom integral module 3 output	4995	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the output of custom integral module 3 forcibly. Note: This parameter is active when P7-34 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-36	Integral time of custom integral module 3	4997	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the integral time of custom integral module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-37	Execution sequence of custom integral module 4	4104	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom integral module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-38	Input of custom integral module 4	4998	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								

	Description: Defines the input of custom integral module 4. Note: Output of custom integral module 4 (U19-54) = Output of custom integral module 4 of last cycle (U19-54) + Input value (P7-38)/Integral time (P7-43)

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-39	Output upper limit of custom integral module 4	4999	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the output upper limit of custom integral module 4. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-54 (Flag for indicating the output of custom integral module 4 reaches upper limit) or U11-55 (Flag for indicating the output of custom integral module 4 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-40	Output lower limit of custom integral module 4	5000	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of custom integral module 4 output. Note: The output of the integrator is limited by the upper limit of the output of the custom integral module and the lower limit of the output of the custom integral module. If the output reaches the upper or lower limit, U11-54 (Flag for indicating the output of custom integral module 4 reaches upper limit) or U11-55 (Flag for indicating the output of custom integral module 4 reaches the lower limit) is set to 1. If the upper limit is lower than or equal to the lower limit, the output value equals to the upper limit.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P7-41	Output of custom integral module 4 enabled forcibly	5002	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: Inhibited 1: Enabled 2: DI1 3: DI2 4: DI3 5: DI4 6: DI5 7: DI6 8: DIL 9: HDI1 10: HDI2 Others: B connector								
	Description: Defines whether to enable the output of custom integral module 4 forcibly. Note: When P7-41 is set to 1, U19-54 (Output of custom integral module 4) equals to P7-42.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-42	Forced setting of custom integral module 4 output	5001	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Used to set the output of custom integral module 4 forcibly. Note: This parameter is active when P7-21 is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-43	Integral time of custom integral module 4	5003	0.000-60.000	0.000	Unsigned 16 bit	0.001	Real time changes	General user	Effective in real time
	Description: Defines the integral time of custom integral module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-44	Execution sequence of custom derivative module 1	4105	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom derivative module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-45	Input of custom derivative module 1	5004	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom derivative module 1. Note: Output of custom derivative module 1 (U19-55) = (P7-45 - P7-45 of last cycle) x P7-46								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-46	Derivative time of custom derivative module 1	5005	0.01-300.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the derivative time of custom derivative module 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-47	Execution sequence of custom derivative module 2	4106	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom derivative module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-48	Input of custom derivative module 2	5006	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom derivative module 2. Note: Output of custom derivative module 2 (U19-56) = (P7-48 - P7-48 of last cycle) x P7-49								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-49	Derivative time of custom derivative module 2	5007	0.01-300.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the derivative time of custom derivative module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-50	Execution sequence of custom derivative module 3	4107	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of custom derivative module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-51	Input of custom derivative module 3	5008	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom derivative module 3. Note: Output of custom derivative module 3 (U19-57) = (P7-51 - P7-51 of last cycle) x P7-52								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-52	Derivative time of custom derivative module 3	5009	0.01-300.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the derivative time of custom derivative module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-53	Execution sequence of custom derivative module 4	4108	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description:								

	Defines the execution sequence of custom derivative module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-54	Input of custom derivative module 4	5010	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of custom derivative module 4. Note: Output of custom derivative module 4 (U19-58) = (P7-54 - P7-54 of last cycle) x P7-55								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-55	Derivative time of custom derivative module 4	5011	0.01-300.00	0.01	Unsigned 16 bit	0.01	Real time changes	General user	Effective in real time
	Description: Defines the derivative time of custom derivative module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-56	Execution sequence of limit module 1	4060	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of limit module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-57	Input of limit module 1	4819	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of limit module 1. Note: When the input of limit module 1 (P7-57) is higher than the upper limit of limit module 1 (P7-58), the output of custom								

	limit module 1 (U19-59) is equal to the upper limit. When the input is lower than the lower limit of limit module 1 (P7-59), the output of custom limit module 1 (U19-59) is equal to the lower limit. When the input of the limit module 1 (P7-57) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-56 (Flag indicating custom limit module 1 reaches the upper limit) is set to 1. When the input is lower than the lower limit, U11-57 (Flag indicating custom limit module 1 reaches the lower limit) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-58	Upper limit of limit module 1	4820	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the upper limit of limit module 1. Note: When the input of limit module 1 (P7-57) is higher than the upper limit of limit module 1 (P7-58), the output of custom limit module 1 (U19-59) is equal to the upper limit. When the input is lower than the lower limit of limit module 1 (P7-59), the output of custom limit module 1 (U19-59) is equal to the lower limit. When the input of the limit module 1 (P7-57) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-56 (Flag indicating custom limit module 1 reaches the upper limit) is set to 1. When the input is lower than the lower limit, U11-57 (Flag indicating custom limit module 1 reaches the lower limit) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-59	Lower limit of limit module 1	4821	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of limit module 1. Note: When the input of limit module 1 (P7-57) is higher than the upper limit of limit module 1 (P7-58), the output of custom limit module 1 (U19-59) is equal to the upper limit. When the input is lower than the lower limit of limit module 1 (P7-59), the output of custom limit module 1 (U19-59) is equal to the lower limit. When the input of the limit module 1 (P7-57) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-56 (Flag indicating custom limit module 1 reaches the upper limit) is								

	set to 1. When the input is lower than the lower limit, U11-57 (Flag indicating custom limit module 1 reaches the lower limit) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-60	Execution sequence of limit module 2	4061	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of limit module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-61	Input of limit module 2	4822	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of limit module 2. Note: When the input of limit module 2 (P7-61) is higher than the upper limit of limit module 2 (P7-62), the output of custom limit module 2 (U19-60) is equal to the upper limit. When the input is lower than the lower limit of limit module 2 (P7-63), the output of custom limit module 2 (U19-60) is equal to the lower limit. When the input of the limit module 2 (P7-61) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-58 (Custom limit module 2 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-59 (Custom limit module 2 reaching the lower limit) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-62	Upper limit of limit module 2	4823	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the upper limit of limit module 2. Note: When the input of limit module 2 (P7-61) is higher than the upper limit of limit module 2 (P7-62), the output of custom limit module 2 (U19-60) is equal to the upper limit. When the input is lower than the lower limit of limit module 2 (P7-63), the output of custom limit module 2 (U19-60) is equal to the lower limit. When the input of the limit module 2 (P7-61) is								

	within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-58 (Custom limit module 2 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-59 (Custom limit module 2 reaching the lower limit) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-63	Lower limit of limit module 2	4824	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of limit module 2. Note: When the input of limit module 2 (P7-61) is higher than the upper limit of limit module 2 (P7-62), the output of custom limit module 2 (U19-60) is equal to the upper limit. When the input is lower than the lower limit of limit module 2 (P7-63), the output of custom limit module 2 (U19-60) is equal to the lower limit. When the input of the limit module 2 (P7-61) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-58 (Custom limit module 2 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-59 (Custom limit module 2 reaching the lower limit) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-64	Execution sequence of limit module 3	4062	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of limit module 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-65	Input of limit module 3	4825	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of limit module 3. Note: When the input of limit module 3 (P7-65) is higher than the upper limit of limit module 3 (P7-66), the output of custom limit module 3 (U19-61) is equal to the upper limit. When the input is lower than the lower limit of limit module 3 (P7-67),								

	the output of custom limit module 3 (U19-61) is equal to the lower limit. When the input of the limit module 3 (P7-65) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-60 (Custom limit module 3 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-61 (Custom limit module 3 reaching the lower limit) is set to 1.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-66	Upper limit of limit module 3	4826	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the upper limit of limit module 3. Note: When the input of limit module 3 (P7-65) is higher than the upper limit of limit module 3 (P7-66), the output of custom limit module 3 (U19-61) is equal to the upper limit. When the input is lower than the lower limit of limit module 3 (P7-67), the output of custom limit module 3 (U19-61) is equal to the lower limit. When the input of the limit module 3 (P7-65) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-60 (Custom limit module 3 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-61 (Custom limit module 3 reaching the lower limit) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-67	Lower limit of limit module 3	4827	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the lower limit of limit module 3. Note: When the input of limit module 3 (P7-65) is higher than the upper limit of limit module 3 (P7-66), the output of custom limit module 3 (U19-61) is equal to the upper limit. When the input is lower than the lower limit of limit module 3 (P7-67), the output of custom limit module 3 (U19-61) is equal to the lower limit. When the input of the limit module 3 (P7-65) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-60 (Custom limit module 3 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-61 (Custom limit module 3 reaching the lower limit) is set to 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P7-68	Execution sequence of limit module 4	4063	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of limit module 4.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-69	Input of limit module 4	4828	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of limit module 4. Note: When the input of limit module 4 (P7-69) is higher than the upper limit of limit module 4 (P7-70), the output of custom limit module 4 (U19-62) is equal to the upper limit. When the input is lower than the lower limit of limit module 4 (P7-71), the output of custom limit module 4 (U19-62) is equal to the lower limit. When the input of the limit module 4 (P7-69) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-62 (Custom limit module 4 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-63 (Custom limit module 4 reaching the lower limit) is set to 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P7-70	Upper limit of limit module 4	4829	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the upper limit of limit module 4. Note: When the input of limit module 4 (P7-69) is higher than the upper limit of limit module 4 (P7-70), the output of custom limit module 4 (U19-62) is equal to the upper limit. When the input is lower than the lower limit of limit module 4 (P7-71), the output of custom limit module 4 (U19-62) is equal to the lower limit. When the input of the limit module 4 (P7-69) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-62 (Custom limit module 4 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-63 (Custom limit module 4 reaching the lower limit) is set to 1.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
	Lower limit of limit module 4	4830	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
P7-71	Description: Defines the lower limit of limit module 4. Note: When the input of limit module 4 (P7-69) is higher than the upper limit of limit module 4 (P7-70), the output of custom limit module 4 (U19-62) is equal to the upper limit. When the input is lower than the lower limit of limit module 4 (P7-71), the output of custom limit module 4 (U19-62) is equal to the lower limit. When the input of the limit module 4 (P7-69) is within the upper and lower limits, the output is equal to the input value. When the input is higher than the upper limit, U11-62 (Custom limit module 4 reaching the upper limit) is set to 1. When the input is lower than the lower limit, U11-63 (Custom limit module 4 reaching the lower limit) is set to 1.								

P8 Custom multi-point operation function block

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-00	Execution sequence of multi-point curve module 1	4052	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of multi-point curve module 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-01	Input of multi-point curve module 1	4637	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02								

to P8-21.

The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0.

When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-02	X1 setting of multi-point curve module 1	4638	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the X1 setting of multi-point curve module 1.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-03	Y1 setting of multi-point curve module 1	4648	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the Y1 setting of multi-point curve module 1.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-04	X2 setting of multi-point curve module 1	4639	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X2 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-05	Y2 setting of multi-point curve module 1	4649	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y2 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-06	X3 setting of multi-point curve module 1	4640	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X3 setting of multi-point curve module 1. Note:								

	You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-07	Y3 setting of multi-point curve module 1	4650	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y3 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-08	X4 setting of multi-point curve module 1	4641	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X4 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P8-09	Y4 setting of multi-point curve module 1	4651	-600 to +6 00	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y4 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-10	X5 setting of multi-point curve module 1	4642	-600 to +6 00	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X5 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-11	Y5 setting of multi-point curve module 1	4652	-600 to +6 00	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y5 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02								

	to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-12	X6 setting of multi-point curve module 1	4643	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X6 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-13	Y6 setting of multi-point curve module 1	4653	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y6 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P8-14	X7 setting of multi-point curve module 1	4644	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X7 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-15	Y7 setting of multi-point curve module 1	4654	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y7 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-16	X8 setting of multi-point curve module 1	4645	-600 to +6 00	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X8 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-								

	point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-17	Y8 setting of multi-point curve module 1	4655	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y8 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-18	X9 setting of multi-point curve module 1	4646	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X9 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Y9 setting of multi-point curve module 1	4656	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-19	Description: Defines the Y9 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	X10 setting of multi-point curve module 1	4647	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-20	Description: Defines the X10 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Y10 setting of multi-point curve module 1	4657	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-21	Description: Defines the Y10 setting of multi-point curve module 1. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-02 to P8-21. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-								

	point curve module 1 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 1 output (U19-63).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-22	Execution sequence of multi-point curve module 2	4053	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of multi-point curve module 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-23	Input of multi-point curve module 2	4658	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-24	X1 setting of multi-point curve module 2	4659	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the X1 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-25	Y1 setting of multi-point curve module 2	4669	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y1 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-26	X2 setting of multi-point curve module 2	4660	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X2 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-27	Y2 setting of multi-point curve module 2	4670	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the Y2 setting of multi-point curve module 2.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-28	X3 setting of multi-point curve module 2	4661	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the X3 setting of multi-point curve module 2.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-29	Y3 setting of multi-point curve module 2	4671	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

	Defines the Y3 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-30	X4 setting of multi-point curve module 2	4662	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X4 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-31	Y4 setting of multi-point curve module 2	4672	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y4 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-32	X5 setting of multi-point curve module 2	4663	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X5 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-33	Y5 setting of multi-point curve module 2	4673	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y5 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-34	X6 setting of multi-point curve module 2	4664	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the X6 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-35	Y6 setting of multi-point curve module 2	4674	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y6 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-36	X7 setting of multi-point curve module 2	4665	-600 to +600	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X7 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-37	Y7 setting of multi-point curve module 2	4675	-600 to +600	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the Y7 setting of multi-point curve module 2.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-38	X8 setting of multi-point curve module 2	4666	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the X8 setting of multi-point curve module 2.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-39	Y8 setting of multi-point curve module 2	4676	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

	Defines the Y8 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-40	X9 setting of multi-point curve module 2	4667	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X9 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-41	Y9 setting of multi-point curve module 2	4677	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y9 setting of multi-point curve module 2. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-42	X10 setting of multi-point curve module 2	4668	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:
Defines the X10 setting of multi-point curve module 2.

Note:
You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-43	Y10 setting of multi-point curve module 2	4678	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:
Defines the Y10 setting of multi-point curve module 2.

Note:
You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-24 to P8-43. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 2 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 2 output (U19-64).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-44	Execution sequence of multi-point curve module 3	4054	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time

	Description: Defines the execution sequence of multi-point curve module 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-45	Input of multi-point curve module 3	4679	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-46	X1 setting of multi-point curve module 3	4680	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X1 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P8-47	Y1 setting of multi-point curve module 3	4690	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y1 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-48	X2 setting of multi-point curve module 3	4681	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X2 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-49	Y2 setting of multi-point curve module 3	4691	-600 to +600	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y2 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46								

	to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-50	X3 setting of multi-point curve module 3	4682	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X3 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-51	Y3 setting of multi-point curve module 3	4692	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y3 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P8-52	X4 setting of multi-point curve module 3	4683	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X4 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-53	Y4 setting of multi-point curve module 3	4693	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y4 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-54	X5 setting of multi-point curve module 3	4684	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X5 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-								

	point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-55	Y5 setting of multi-point curve module 3	4694	-600 to +600	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y5 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-56	X6 setting of multi-point curve module 3	4685	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X6 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	Y6 setting of multi-point curve module 3	4695	-600 to +6 00	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-57	Description: Defines the Y6 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	X7 setting of multi-point curve module 3	4686	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-58	Description: Defines the X7 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Y7 setting of multi-point curve module 3	4696	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-59	Description: Defines the Y7 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-								

	point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-60	X8 setting of multi-point curve module 3	4687	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X8 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-61	Y8 setting of multi-point curve module 3	4697	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y8 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

	X9 setting of multi-point curve module 3	4688	-600 to +6 00	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-62	Description: Defines the X9 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	Y9 setting of multi-point curve module 3	4698	-600 to +6 00	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-63	Description: Defines the Y9 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
	X10 setting of multi-point curve module 3	4689	-600 to +6 00	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
P8-64	Description: Defines the X10 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-								

	point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-65	Y10 setting of multi-point curve module 3	4699	-600 to +6 00	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y10 setting of multi-point curve module 3. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-46 to P8-65. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 3 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 3 output (U19-65).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-66	Execution sequence of multi-point curve module 4	4055	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of multi-point curve module 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-67	Input of multi-point curve module 4	4700	Refer to "Value"	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Value: 0: 0 Others: K connector								
	Description: Defines the input of multi-point curve module 4.								

	Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-68	X1 setting of multi-point curve module 4	4701	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X1 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-69	Y1 setting of multi-point curve module 4	4711	-600 to +600	0	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y1 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-70	X2 setting of multi-point curve module 4	4702	-600 to +6 00	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the X2 setting of multi-point curve module 4.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-71	Y2 setting of multi-point curve module 4	4712	-600 to +6 00	10	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the Y2 setting of multi-point curve module 4.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-72	X3 setting of multi-point curve module 4	4703	-600 to +6 00	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

	Defines the X3 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-73	Y3 setting of multi-point curve module 4	4713	-600 to +600	20	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y3 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-74	X4 setting of multi-point curve module 4	4704	-600 to +600	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X4 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-75	Y4 setting of multi-point curve module 4	4714	-600 to +6 00	30	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the Y4 setting of multi-point curve module 4.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-76	X5 setting of multi-point curve module 4	4705	-600 to +6 00	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

Defines the X5 setting of multi-point curve module 4.

Note:

You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-77	Y5 setting of multi-point curve module 4	4715	-600 to +6 00	40	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

	Defines the Y5 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-78	X6 setting of multi-point curve module 4	4706	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X6 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-79	Y6 setting of multi-point curve module 4	4716	-600 to +600	50	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y6 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-80	X7 setting of multi-point curve module 4	4707	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:
Defines the X7 setting of multi-point curve module 4.

Note:
You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-81	Y7 setting of multi-point curve module 4	4717	-600 to +6 00	60	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:
Defines the Y7 setting of multi-point curve module 4.

Note:
You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-82	X8 setting of multi-point curve module 4	4708	-600 to +6 00	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time

Description:

	Defines the X8 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-83	Y8 setting of multi-point curve module 4	4718	-600 to +600	70	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y8 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-84	X9 setting of multi-point curve module 4	4709	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X9 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of								

	multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-85	Y9 setting of multi-point curve module 4	4719	-600 to +600	80	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the Y9 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-86	X10 setting of multi-point curve module 4	4710	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description: Defines the X10 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P8-87	Y10 setting of multi-point curve module 4	4720	-600 to +600	90	Signed 16 bits	0.1	Real time changes	General user	Effective in real time
	Description:								

	Defines the Y10 setting of multi-point curve module 4. Note: You can set the x-coordinates X1 to X10 and y-coordinates Y1 to Y10 of multi-point curve coordinate points through P8-68 to P8-87. The x-coordinate of active coordinate point needs to be incremented (X1<X2<···) in sequence. Otherwise, multi-point curve module 4 is inactive and A46-36 (Parameter setting error) will be reported. If there are coordinate points that need not be used, set the x-coordinates of these coordinate points to 0. For example, if only six coordinate points are needed, set X7...X10 to 0. When the input of multi-point curve module A is outside the x-coordinate of the active coordinate point, the output is equal to the y-coordinate value of the adjacent active coordinate point. When the input of multi-point curve module A is between two active coordinate points, the output is linearized based on the slope between the two points. The output can be monitored through custom multi-point curve module 4 output (U19-66).

P9 Custom process control function block

<table>
<tr><th>Param</th><th>Name</th><th>Communication address</th><th>Range</th><th>Default</th><th>Data type</th><th>Accuracy</th><th>Change mode</th><th>User authority</th><th>Effective mode</th></tr>
<tr><td rowspan="3">P9-00</td><td>Type of execution sequence conflict module 1</td><td>35799</td><td>Refer to "Value"</td><td>0</td><td>Unsigned 16 bit</td><td>1</td><td>Cannot be changed</td><td>General user</td><td>Effective in real time</td></tr>
<tr><td colspan="9">Value：
0： No conflict
1： Group P0 word-to-bit module
2： Group P0 bit-to-word module
3： Group P0 Word-to-Double word module
4： Group P0 double word-to-word module
5： Group P1 AND module
6： Group P1 NOT module
7： Group P2 OR module
8： Group P2 XOR/XNOR module
9： Group P2 NAND module
10： Group P3 binary multiplexer module
11： Group P3 digital multiplexer module
12： Group P4 DELAY module
13： Group P4 level-to-pulse conversion module
14： Group P4 filter module
15： Group P4 RS flip-flop module
16： Group P4 D flip-flop module
17： Group P5 pulse width generator module
18： Group P6 ADD/SUBTRACT module
19： Group P6 MULTIPLY/DIVIDE module
20： Group P6 absolute value module
21： Group P6 comparison module
22： Group P7 inversion module
23： Group P7 integral module
24： Group P7 derivative module
25： Group P7 limit module
26： Group P8 multi-point curve module
27： Group P9 process setting word parameter
28： Group P9 process setting bit parameter
29： Group P9 process controller</td></tr>
<tr><td colspan="9">Description：
Defines the type of execution sequence conflict module 1.

Note:
For using groups o (process parameters) and P (custom function blocks), you need to define the execution sequence first. The execution sequence ranges from 0 to 65535, and the function blocks with low execution sequence values are</td></tr>
</table>

	calculated first. When the execution sequence of the two free function blocks is the same, P9-00 to P9-03 display the type and group of the two conflict modules to facilitate positioning of the conflict modules.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-01	Group of execution sequence conflict module 1	35800	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Description:

Displays the group of execution sequence conflict module 1.

Note:

For using groups o (process parameters) and P (custom function blocks), you need to define the execution sequence first. The execution sequence ranges from 0 to 65535, and the function blocks with low execution sequence values are calculated first. When the execution sequence of the two free function blocks is the same, P9-00 to P9-03 display the type and group of the two conflict modules to facilitate positioning of the conflict modules.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-02	Type of execution sequence conflict module 2	35801	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: No conflict
1: Group P0 word-to-bit module
2: Group P0 bit-to-word module
3: Group P0 Word-to-Double word module
4: Group P0 double word-to-word module
5: Group P1 AND module
6: Group P1 NOT module
7: Group P2 OR module
8: Group P2 XOR/XNOR module
9: Group P2 NAND module
10: Group P3 binary multiplexer module
11: Group P3 digital multiplexer module
12: Group P4 DELAY module
13: Group P4 level-to-pulse conversion module
14: Group P4 filter module
15: Group P4 RS flip-flop module
16: Group P4 D flip-flop module
17: Group P5 pulse width generator module
18: Group P6 ADD/SUBTRACT module
19: Group P6 MULTIPLY/DIVIDE module
20: Group P6 absolute value module
21: Group P6 comparison module
22: Group P7 inversion module
23: Group P7 integral module
24: Group P7 derivative module
25: Group P7 limit module
26: Group P8 multi-point curve module
27: Group P9 process setting word parameter
28: Group P9 process setting bit parameter
29: Group P9 process controller

Description:

Defines the type of execution sequence conflict module 2.

Note:

	For using groups o (process parameters) and P (custom function blocks), you need to define the execution sequence first. The execution sequence ranges from 0 to 65535, and the function blocks with low execution sequence values are calculated first. When the execution sequence of the two free function blocks is the same, P9-00 to P9-03 display the type and group of the two conflict modules to facilitate positioning of the conflict modules.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-03	Group of execution sequence conflict module 2	35802	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Description: Displays the group of execution sequence conflict module 2. Note: For using groups o (process parameters) and P (custom function blocks), you need to define the execution sequence first. The execution sequence ranges from 0 to 65535, and the function blocks with low execution sequence values are calculated first. When the execution sequence of the two free function blocks is the same, P9-00 to P9-03 display the type and group of the two conflict modules to facilitate positioning of the conflict modules.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-04	Execution sequence of process setting word parameter 1	4068	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 1.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-05	Execution sequence of process setting word parameter 2	4069	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 2.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-06	Execution sequence of process setting word parameter 3	4070	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 3.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-07	Execution sequence of process setting word parameter 4	4071	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 4.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-08	Execution sequence of process setting word parameter 5	4072	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-09	Execution sequence of process setting word parameter 6	4073	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-10	Execution sequence of process setting word parameter 7	4074	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 7.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-11	Execution sequence of process setting word parameter 8	4075	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 8.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

P9-12	Execution sequence of process setting word parameter 9	4076	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 9.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-13	Execution sequence of process setting word parameter 10	4077	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 10.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-14	Execution sequence of process setting word parameter 11	4078	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 11.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-15	Execution sequence of process setting word parameter 12	4079	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 12.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-16	Execution sequence of process setting word parameter 13	4080	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 13.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-17	Execution sequence of process setting word parameter 14	4081	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting word parameter 14.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-18	Execution sequence of process setting bit parameter 1	4082	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting bit parameter 1.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-19	Execution sequence of process setting bit parameter 2	4083	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting bit parameter 2.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-20	Execution sequence of process setting bit parameter 3	4084	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting bit parameter 3.								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-21	Execution sequence of process setting bit parameter 4	4085	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting bit parameter 4.								
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
P9-22	Execution sequence of process setting bit parameter 5	4086	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting bit parameter 5.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-23	Execution sequence of process setting bit parameter 6	4087	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process setting bit parameter 6.								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
P9-24	Execution sequence of process controller	4088	0-65535	0	Unsigned 16 bit	1	Real time changes	General user	Effective in real time
	Description: Defines the execution sequence of process controller.								

U0 Bit connector 1

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-00	Logic 0	32896	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-01	Logic 1	32897	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-02	DI1	32898	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-03	DI2	32899	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-04	DI3	32900	0-1	0	Boolean	1	Cannot be	General	Effective in real

					type		changed	user	time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-05	DI4	32901	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-06	DI5	32902	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-07	DI6	32903	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-08	DIL	32904	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-09	HDI1	32905	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-10	HDI2	32906	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-12	DI1 inverted	32908	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-13	DI2 inverted	32909	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-14	DI3 inverted	32910	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-15	DI4 inverted	32911	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-16	DI5 inverted	32912	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-17	DI6 inverted	32913	0-1	0	Boolean	1	Cannot be	General	Effective

					type		changed	user	in real time
U0-18	DIL invert	32914	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-19	HDI1 inverted	32915	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-20	HDI2 inverted	32916	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-21	RO1	32917	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-22	RO2	32918	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-23	RO3	32919	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-24	HDO1	32920	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-25	HDO2	32921	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-26	Current command channel	32922	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Command channel 1 1: Command channel 2								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-27	Motor selection bit0	32923	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U0-28	Motor selection bit1	32924	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-29	RFG selection bit0	32925	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-30	RFG selection bit1	32926	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-31	Multi-reference selection 1	32927	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-32	Multi-reference selection 2	32928	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-33	Multi-reference selection 3	32929	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-34	Multi-reference selection 4	32930	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-35	AI1 open circuit monitoring	32931	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-36	AI2 open circuit monitoring	32932	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-37	Active ramp group	36908	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Ramps 1 to 4 in group C7 activated 1: Ramps 1 to 4 in group C8 activated								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-41	State of expansion slot 1_1	32937	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

									time
U0-42	State of expansion slot 1_2	32938	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-43	State of expansion slot 1_3	32939	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-44	State of expansion slot 2_1	32940	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-45	State of expansion slot 2_2	32941	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-46	State of expansion slot 2_3	32942	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-47	State of expansion slot 3_1	32943	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-48	Process parameter group selection bit0	32944	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-49	Process parameter group selection bit1	32945	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-51	Positive speed selection	32966	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-52	Negative speed permission	32967	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value:								

	0：Disabled 1：Enabled								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-53	State of trigger oscilloscope	33784	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value： 0：Not triggered 1：Triggered								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-54	STO1 feedback status	36286	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-55	STO2 feedback status	36287	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-84	FO sync expansion module.PZD1.0	32980	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-85	FO sync expansion module.PZD1.1	32981	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-86	FO sync expansion module.PZD1.2	32982	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-87	FO sync expansion module.PZD1.3	32983	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-88	FO sync expansion module.PZD1.4	32984	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-89	FO sync expansion module.PZD1.5	32985	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-90	FO sync expansion module.PZD1.6	32986	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U0-91	FO sync expansion module.PZD1.7	32987	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-92	FO sync expansion module.PZD1.8	32988	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-93	FO sync expansion module.PZD1.9	32989	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-94	FO sync expansion module.PZD1.10	32990	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-95	FO sync expansion module.PZD1.11	32991	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-96	FO sync expansion module.PZD1.12	32992	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U0-97	FO sync expansion module.PZD1.13	32993	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-98	FO sync expansion module.PZD1.14	32994	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U0-99	FO sync expansion module.PZD1.15	32995	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U1: Bit connector 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-00	Ready to switch on	32996	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-01	Ready to run	32997	0-1	0	Boolean	1	Cannot be	General	Effective in real

					type		changed	user	time
U1-02	Run	32998	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-03	Fault activation	32999	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-04	OFF2 deactivation	33000	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-05	OFF3 deactivation	33001	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-06	Switch-on inhibited	33002	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-07	Alarm/Minor fault activation	33003	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-08	Speed setpoint reached without deviation	33004	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-09	Comparison value reached	33005	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-10	Torque/Current limit reached	33006	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-11	Brake releasing	33007	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-12	Speed in positive direction	33008	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-13	IGBT operating	33009	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U1-14	Jog activation	33010	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-15	Pre-excitation start	33011	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-16	DC braking start	33012	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-17	Flying start	33013	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-18	Torque control activation	33014	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-19	Softening function enable	33015	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-20	Not ready to switch on	33016	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-21	Not ready to run	33017	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-22	Non-operational	33018	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-23	No fault	33019	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-24	OFF2 activation	33020	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-25	OFF3 activation	33021	0-1	0	Boolean type	1	Cannot be	General user	Effective in real

							changed		time
U1-26	Switch-on permission	33022	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-27	No alarm/minor fault	33023	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-28	Excessive speed deviation	33024	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-29	Comparison value not reached	33025	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-30	Torque/Current limit not reached	33026	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-31	Brake applying	33027	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-32	Speed in negative direction	33028	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-33	IGBT block	33029	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-34	Jog deactivation	33030	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-35	Pre-excitation completed	33031	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-36	DC injection ended	33032	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-37	Speed tracking completed	33033	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U1-38	Speed regulator enable	33034	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-39	Command for holding speed loop integral	33035	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-40	Command for setting speed loop integral	33036	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-41	RFG output inhibition	33037	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-42	RFG pause	33038	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-43	RFG cleared (internal)	33039	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-44	RFG acceleration	33040	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-45	RFG deceleration	33041	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-46	RFG constant speed	33042	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-47	RFG input deactivation	33043	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-48	Vdc_min activation	33044	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-49	Vdc_max activation	33045	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication	Range	Default	Data	Accuracy	Change	User	Effective

		address			type		mode	authority	mode
U1-50	Torque upper limit reached	33046	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-51	Torque lower limit reached	33047	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-52	Torque current upper limit reached	33048	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-53	Torque current lower limit reached	33049	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-54	Imax (V/f) activation	33050	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-55	Current regulator limit reached	33051	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-56	Voltage model activation	33052	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-57	Motor fan operating	33053	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-58	Brake released	33054	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-59	Brake applied	33055	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-60	Brake cannot be released	33056	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-61	Brake cannot be applied	33057	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U1-62	Motor pre-overload state	33058	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-63	Operating at zero speed	33059	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-64	DC bus charged flag	33060	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-65	Motor speed being zero	33061	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-66	PID function activation	33062	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-67	PID operation enable	33063	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-68	PID action direction	33064	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-69	PID reference freeze enable	33065	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-70	PID integral component enabled forcibly	33066	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-71	PID deviation dead-band enable	33067	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-72	PID saturation status	33068	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-73	Motor overtemperature protection flag	33069	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-74	Motor	33070	0-1	0	Boolean	1	Cannot	General	Effective

	overtemperature alarm flag				type		be changed	user	in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-75	Start/Stop command from Modbus communication	33071	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-76	Brake starting torque established	33072	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-77	Overspeed	33073	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-78	Remote control permission	33074	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-79	HE rectifier in operation	33079	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-80	HE rectifier switch-on completed	33080	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-81	Rectifier enable	33566	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-82	Hardware limit 1 activation	36086	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-83	Positive hardware limit 1 activation	36087	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-84	Negative hardware limit 1 activation	36088	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-85	Software limit activation	36089	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U1-86	Positive software limit activation	36090	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-87	Negative software limit activation	36091	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-88	Hardware limit 2 activation	36099	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-89	Positive hardware limit 2 activation	36100	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-90	Negative hardware limit 2 activation	36101	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-93	Brake failure self-start activation	37496	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-95	SOP-20-880 control authority	36315	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disabled 1: Enabled								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U1-96	RFG tracking activation	36912	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-97	Target speed reached	33078	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-98	Ready to switch on	33076	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U1-99	Ready to run	33077	0-1	0	Boolean type	1	Cannot be	General user	Effective in real

							changed		time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-00	PZD1.0 of bus adapter A	33096	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-01	PZD1.1 of bus adapter A	33097	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-02	PZD1.2 of bus adapter A	33098	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-03	PZD1.3 of bus adapter A	33099	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-04	PZD1.4 of bus adapter A	33100	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-05	PZD1.5 of bus adapter A	33101	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-06	PZD1.6 of bus adapter A	33102	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-07	PZD1.7 of bus adapter A	33103	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-08	PZD1.8 of bus adapter A	33104	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-09	PZD1.9 of bus adapter A	33105	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U2-10	PZD1.10 of bus adapter A	33106	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-11	PZD1.11 of bus adapter A	33107	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-12	PZD1.12 of bus adapter A	33108	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-13	PZD1.13 of bus adapter A	33109	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-14	PZD1.14 of bus adapter A	33110	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-15	PZD1.15 of bus adapter A	33111	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-16	PZD1.0 of bus adapter B	33144	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-17	PZD1.1 of bus adapter B	33145	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-18	PZD1.2 of bus adapter B	33146	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-19	PZD1.3 of bus adapter B	33147	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-20	PZD1.4 of bus adapter B	33148	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-21	PZD1.5 of bus adapter B	33149	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-22	PZD1.6 of bus	33150	0-1	0	Boolean	1	Cannot be	General	Effective

	adapter B				type		changed	user	in real time
U2-23	PZD1.7 of bus adapter B	33151	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-24	PZD1.8 of bus adapter B	33152	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-25	PZD1.9 of bus adapter B	33153	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-26	PZD1.10 of bus adapter B	33154	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-27	PZD1.11 of bus adapter B	33155	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-28	PZD1.12 of bus adapter B	33156	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-29	PZD1.13 of bus adapter B	33157	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-30	PZD1.14 of bus adapter B	33158	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-31	PZD1.15 of bus adapter B	33159	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-32	Inolink.PZD1.0	33176	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-33	Inolink.PZD1.1	33177	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-34	Inolink.PZD1.2	33178	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

									time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-35	Inolink.PZD1.3	33179	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-36	Inolink.PZD1.4	33180	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-37	Inolink.PZD1.5	33181	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-38	Inolink.PZD1.6	33182	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-39	Inolink.PZD1.7	33183	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-40	Inolink.PZD1.8	33184	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-41	Inolink.PZD1.9	33185	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-42	Inolink.PZD1.10	33186	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-43	Inolink.PZD1.11	33187	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-44	Inolink.PZD1.12	33188	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-45	Inolink.PZD1.13	33189	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-46	Inolink.PZD1.14	33190	0-1	0	Boolean	1	Cannot be	General	Effective

					type		changed	user	in real time
U2-47	Inolink.PZD1.15	33191	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-48	bit0 of the output of word-to-bit function 1	33112	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-49	bit1 of the output of word-to-bit function 1	33113	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-50	bit2 of the output of word-to-bit function 1	33114	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-51	bit3 of the output of word-to-bit function 1	33115	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-52	bit4 of the output of word-to-bit function 1	33116	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-53	bit5 of the output of word-to-bit function 1	33117	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-54	bit6 of the output of word-to-bit function 1	33118	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-55	bit7 of the output of word-to-bit function 1	33119	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-56	bit8 of the output of word-to-bit function 1	33120	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-57	bit9 of the output of word-to-bit function 1	33121	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-58	bit10 of the output of word-to-bit function	33122	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

	1								time
U2-59	bit11 of the output of word-to-bit function 1	33123	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-60	bit12 of the output of word-to-bit function 1	33124	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-61	bit13 of the output of word-to-bit function 1	33125	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-62	bit14 of the output of word-to-bit function 1	33126	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-63	bit15 of the output of word-to-bit function 1	33127	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-64	bit0 of the output of word-to-bit function 2	33128	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-65	bit1 of the output of word-to-bit function 2	33129	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-66	bit2 of the output of word-to-bit function 2	33130	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-67	bit3 of the output of word-to-bit function 2	33131	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-68	bit4 of the output of word-to-bit function 2	33132	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-69	bit5 of the output of word-to-bit function 2	33133	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-70	bit6 of the output of	33134	0-1	0	Boolean	1	Cannot be	General	Effective

	word-to-bit function 2				type		changed	user	in real time
U2-71	bit7 of the output of word-to-bit function 2	33135	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-72	bit8 of the output of word-to-bit function 2	33136	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-73	bit9 of the output of word-to-bit function 2	33137	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-74	bit10 of the output of word-to-bit function 2	33138	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-75	bit11 of the output of word-to-bit function 2	33139	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-76	bit12 of the output of word-to-bit function 2	33140	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-77	bit13 of the output of word-to-bit function 2	33141	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-78	bit14 of the output of word-to-bit function 2	33142	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-79	bit15 of the output of word-to-bit function 2	33143	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-80	bit0 of the output of word-to-bit function 3	33160	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-81	bit1 of the output of word-to-bit function 3	33161	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-82	bit2 of the output of word-to-bit function	33162	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

	3								time
U2-83	bit3 of the output of word-to-bit function 3	33163	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-84	bit4 of the output of word-to-bit function 3	33164	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-85	bit5 of the output of word-to-bit function 3	33165	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-86	bit6 of the output of word-to-bit function 3	33166	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-87	bit7 of the output of word-to-bit function 3	33167	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-88	bit8 of the output of word-to-bit function 3	33168	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-89	bit9 of the output of word-to-bit function 3	33169	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-90	bit10 of the output of word-to-bit function 3	33170	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-91	bit11 of the output of word-to-bit function 3	33171	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-92	bit12 of the output of word-to-bit function 3	33172	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-93	bit13 of the output of word-to-bit function 3	33173	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U2-94	bit14 of the output of word-to-bit function 3	33174	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U2-95	bit15 of the output of word-to-bit function 3	33175	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-00	Output of logical AND module A	33196	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-01	Output of logical AND module B	33197	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-02	Output of logical AND module C	33198	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-03	Output of logical AND module D	33199	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-04	Logical NOT module A output	33200	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-05	Logical NOT module B output	33201	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-06	Output of logical NOT module C	33202	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-07	Output of logical NOT module D	33203	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-08	Output of logical NOT module E	33204	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-09	Output of logical NOT	33205	0-1	0	Boolean	1	Cannot be	General	Effective in real

	module F				type		changed	user	time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-10	Output of logical NOT module G	33206	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-11	Output of logical NOT module H	33207	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-12	Output of logical OR module A	33208	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-13	Output of logical OR module B	33209	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-14	Output of logical OR module C	33210	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-15	Output of logical OR module D	33211	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-16	Output of logical XOR/XNOR module A	33216	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-17	Output of logic XOR\XNOR module B	33217	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-18	Output of logic XOR\XNOR module C	33218	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-19	Output of logic XOR\XNOR module D	33219	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-20	Output of binary multiplexer module A	33220	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-21	Output of binary	33221	0-1	0	Boolean	1	Cannot	General	Effective

	multiplexer module B				type		be changed	user	in real time
U3-22	Output of level-to-pulse conversion module A	33222	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-23	Output of level-to-pulse conversion module B	33223	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-24	Output of level-to-pulse conversion module C	33224	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-25	Output of level-to-pulse conversion module D	33225	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-26	Output of logic delay module A	33212	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-27	Output of logical delay module B	33213	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-28	Output of logical delay module C	33214	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-29	Output of logical delay module D	33215	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-30	Negative number input flag of absolute value module A	33226	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-31	Negative number input flag of absolute value module B	33227	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-32	Negative number input flag of absolute value module C	33228	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-33	Negative number input flag of absolute value	33229	0-1	0	Boolean type	1	Cannot be	General user	Effective in real

	module D						changed		time
U3-34	Divide-by-zero flag of MULTIPLY/DIVIDE module A	33230	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-35	Divide-by-zero flag of MULTIPLY/DIVIDE module B	33231	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-36	Divide-by-zero flag of MULTIPLY/DIVIDE module C	33232	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-37	Divide-by-zero flag of MULTIPLY/DIVIDE module D	33233	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-38	Output of comparison module A	33234	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-39	Output of comparison module B	33235	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-40	Hardware fault	33236	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-41	SD card fault	33237	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-42	Low RTC battery voltage	33238	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-43	Local control fault	33239	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-44	Drive communication fault	33240	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-45	Expansion card offline	33241	0-1	0	Boolean	1	Cannot	General	Effective

					type		be changed	user	in real time
U3-46	Expansion card slot address conflict	33242	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-47	Bus adapter fault	33243	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-48	Encoder fault	33244	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-49	IGBT drive fault	33245	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-50	Overcurrent fault	33246	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-51	Overvoltage fault	33247	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-52	Undervoltage fault	33248	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-53	Input phase loss	33249	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-54	Output phase loss	33250	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-55	Auto-inspection fault	33251	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-56	Drive overload	33252	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-57	Short-circuited to ground	33253	0-1	0	Boolean type	1	Cannot be	General user	Effective in real

							changed		time
U3-58	Module overtemperature	33254	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-59	Module temperature too low	33255	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-60	Ambient temperature too high	33256	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-61	Parameters set incorrectly	33257	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-62	Motor auto-tuning fault	33258	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-63	Motor overload	33259	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-64	Speed tracking failure	33260	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-65	Motor overspeed	33261	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-66	Excessive speed deviation	33262	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-67	Inverter fuse failure	33263	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-68	STO fault	33264	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-69	PID feedback loss	33265	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-70	External fault activated	33266	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-71	External alarm activated	33267	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-72	Pre-charge fault	33268	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-73	EEPROM power failure	33269	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-74	Excessive leakage current	33270	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-75	Motor auto-tuning error	33271	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-76	DC pre-charge fault	33272	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-77	Inverter fan fault	33273	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-78	Master-slave communication fault (InoLink & optical fiber synchronization)	33274	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-79	Brake feedback error	33275	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-80	Incorrect model parameter	33276	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-81	Internal fault	33277	0-1	0	Boolean	1	Cannot be	General	Effective in real

					type		changed	user	time
U3-82	Exception	33278	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-83	24 V voltage too low	33279	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-84	Braking transistor fault	33280	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-85	Parallel module alarm	33281	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-86	Parallel mode fault	33282	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-87	Motor control error	33283	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-88	Bus adapter alarm	33284	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-89	The braking resistance is too high.	33285	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-90	Over-low braking resistance	33286	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-91	Braking module error	33287	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-92	Braking resistor overtemperature	33288	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-93	Module pre-overtemperature	33289	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U3-94	Short circuit flag of HE rectifier braking transistor	33291	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U3-95	STO alarm	36257	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-96	Output of comparison module E	36916	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-97	Output of binary multiplexer module C	35067	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-98	Output of binary multiplexer module D	35068	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U3-99	Output of binary multiplexer module E	35069	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-00	[I/O module 1] DI1 input	35263	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-01	[I/O module 1] DI2 input	35264	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-02	[I/O module 1] DI3 input	35265	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-03	[I/O module 1] DI4 input	35266	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-04	[I/O module 1] DI5 input	35267	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-05	[I/O module 1] DI6 input	35268	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-06	[I/O module 1] DIO1 input	32946	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-07	[I/O module 1] DIO2 input	32947	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-08	[I/O module 1] DIO3 input	32948	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-09	[I/O module 1] DIO4 input	32949	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-10	[I/O module 1] DIO5 input	32950	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-11	[I/O module 1] DIO6 input	32951	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-12	[I/O module 2] DI1 input	35269	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-13	[I/O module 2] DI2 input	35270	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-14	[I/O module 2] DI3 input	35271	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-15	[I/O module 2] DI4 input	35272	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-16	[I/O module 2] DI5 input	35273	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

									time
U4-17	[I/O module 2] DI6 input	35274	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-18	[I/O module 2] DIO1 input	32952	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-19	[I/O module 2] DIO2 input	32953	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-20	[I/O module 2] DIO3 input	32954	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-21	[I/O module 2] DIO4 input	32955	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-22	[I/O module 2] DIO5 input	32956	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-23	[I/O module 2] DIO6 input	32957	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-24	[I/O module 3] DI1 input	35275	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-25	[I/O module 3] DI2 input	35276	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-26	[I/O module 3] DI3 input	35277	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-27	[I/O module 3] DI4 input	35278	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-28	[I/O module 3] DI5 input	35279	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U4-29	[I/O module 3] DI6 input	35280	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-30	[I/O module 3] DIO1 input	32958	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-31	[I/O module 3] DIO2 input	32959	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-32	[I/O module 3] DIO3 input	32960	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-33	[I/O module 3] DIO4 input	32961	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-34	[I/O module 3] DIO5 input	32962	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-35	[I/O module 3] DIO6 input	32963	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-36	<I/O module 1> AI1 input disconnected	35281	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-37	<I/O module 1> AI2 input disconnected	35282	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-38	<I/O module 1> AI3 input disconnected	35283	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-39	<I/O module 2> AI1 input disconnected	35284	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-40	<I/O module 2> AI2 input disconnected	35285	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

									time
U4-41	<I/O module 2> AI3 input disconnected	35286	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-42	<I/O module 3> AI1 input disconnected	35287	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-43	<I/O module 3> AI2 input disconnected	35288	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-44	<I/O module 3> AI3 input disconnected	35289	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-45	Output of pulse generator module 1	35303	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-46	Output of pulse generator module 2	35305	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-47	Output of pulse generator module 3	35306	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-48	Speed in positive direction (zero speed set to 0)	36356	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-49	Speed in negative direction (zero speed set to 0)	36357	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-51	STO activated	35304	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Activated 1: Not activated								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-52	Soft pump sensor	36279	0-1	0	Boolean	1	Cannot be	General	Effective

	output signal (for testing)				type		changed	user	in real time
U4-53	Condition for operating the soft pump	36282	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-54	Operating condition of the soft pump	36283	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-57	Alarm for relay (RO1) lifetime reached	37457	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-58	Fault for relay (RO1) lifetime reached	37461	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-59	Alarm for relay (RO2) lifetime reached	37458	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-60	Fault for relay (RO2) lifetime reached	37462	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-61	Alarm for relay (RO3) lifetime reached	37459	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-62	Fault for relay (RO3) lifetime reached	37463	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-65	Saving to black box	37492	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-66	Soft torque activated	37493	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-69	Output of comparison module C	35106	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-70	Output of comparison	35107	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

	module D								time
U4-71	Output of comparison module E	35108	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-72	Limit flag of limit module A	35102	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-73	Limit flag of limit module B	35103	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-74	Limit flag of limit module C	35104	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-75	Limit flag of limit module D	35105	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-76	bit0 of the output of word-to-bit function 4	35070	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-77	bit1 of the output of word-to-bit function 4	35071	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-78	bit2 of the output of word-to-bit function 4	35072	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-79	bit3 of the output of word-to-bit function 4	35073	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-80	bit4 of the output of word-to-bit function 4	35074	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-81	bit5 of the output of word-to-bit function 4	35075	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-82	bit6 of the output of word-to-bit function 4	35076	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-83	bit7 of the output of word-to-bit function 4	35077	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-84	bit8 of the output of word-to-bit function 4	35078	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-85	bit9 of the output of word-to-bit function 4	35079	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-86	bit10 of the output of word-to-bit function 4	35080	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-87	bit11 of the output of word-to-bit function 4	35081	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-88	bit12 of the output of word-to-bit function 4	35082	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-89	bit13 of the output of word-to-bit function 4	35083	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-90	bit14 of the output of word-to-bit function 4	35084	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-91	bit15 of the output of word-to-bit function 4	35085	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-92	Output of logical AND/OR module A	35094	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-93	Output of logical AND/OR module B	35095	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-94	Output of logical AND/OR module C	35096	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real

									time
U4-95	Output of logical AND/OR module D	35097	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-96	Output of logical AND/OR module E	35098	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-97	Output of logical AND/OR module F	35099	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U4-98	Output of logical AND/OR module G	35100	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U4-99	Output of logical AND/OR module H	35101	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-00	Actual motor speed (filtered)	34057	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-01	Output voltage (filtered)	34058	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-02	Output current (filtered)	34059	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-03	Mechanical output power of the motor (filtered)	34060	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-04	Output torque (filtered)	34061	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U5-05	DC bus voltage (filtered)	34348	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
U5-06	Detected motor temperature	33396	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U5-07	Detected module temperature	33397	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-08	Maximum temperature of power unit cavity	33398	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-09	Detected rectifier temperature	33399	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-10	(Reserved)	33400	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-11	Encoder measurement angle	33478	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-12	Number of revolutions of encoder	33479	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-13	PTC resistance of motor temperature detection	33511	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
U5-14	A signal after sine/cosine encoder demodulated	34402	-327.68 V to +327.67 V	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-15	B signal after sine/cosine encoder demodulated	34403	-327.68 V to +327.67 V	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
U5-16	Encoder position angle deviation	34436	-32768° to +32767°	0	Signed 16 bits	1	Cannot be	General user	Effective in real

							changed		time
U5-17	Estimated motor temperature	34575	-3276.8°C to +3276.7°C	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U5-18	AI1 input proportion	33401	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-19	AI2 input proportion	33402	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-20	HDI1 input proportion	33403	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-21	HDI2 input proportion	33404	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-22	AO1 output proportion	33405	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-23	AO2 output proportion	33406	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-24	HDO1 output proportion	33407	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-25	HDO2 output proportion	33408	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-26	Phase U current	34365	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-27	Phase V current	34366	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-28	Phase W current	34367	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U5-29	Phase U voltage	34372	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-30	Phase V voltage	34373	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-31	Phase W voltage	34374	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-32	PZD1 of InoLink	33409	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-33	PZD2 of InoLink	33410	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-34	PZD3 of InoLink	33411	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-35	PZD4 of InoLink	33412	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-36	PZD5 of InoLink	33413	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-37	PZD6 of InoLink	33414	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-38	PZD7 of InoLink	33415	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-39	PZD8 of InoLink	33416	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-40	Modbus communication	33449	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

	setpoint 1						changed		time
U5-41	Modbus communication setpoint 2	33450	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-44	PZD1 of bus adapter A	33417	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-45	PZD2 of bus adapter A	33418	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-46	PZD3 of bus adapter A	33419	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-47	PZD4 of bus adapter A	33420	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-48	PZD5 of bus adapter A	33421	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-49	PZD6 of bus adapter A	33422	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-50	PZD7 of bus adapter A	33423	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-51	PZD8 of bus adapter A	33424	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-52	PZD9 of bus adapter A	33425	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-53	PZD10 of bus adapter A	33426	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-54	PZD11 of bus adapter A	33427	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U5-55	PZD12 of bus adapter A	33428	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-56	PZD13 of bus adapter A	33429	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-57	PZD14 of bus adapter A	33430	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-58	PZD15 of bus adapter A	33431	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-59	PZD16 of bus adapter A	33432	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-60	PZD1 of bus adapter B	33433	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-61	PZD2 of bus adapter B	33434	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-62	PZD3 of bus adapter B	33435	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-63	PZD4 of bus adapter B	33436	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-64	PZD5 of bus adapter B	33437	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-65	PZD6 of bus adapter B	33438	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-66	PZD7 of bus adapter B	33439	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication	Range	Default	Data type	Accuracy	Change	User	Effective

		address					mode	authority	mode
U5-67	PZD8 of bus adapter B	33440	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-68	PZD9 of bus adapter B	33441	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-69	PZD10 of bus adapter B	33442	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-70	PZD11 of bus adapter B	33443	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-71	PZD12 of bus adapter B	33444	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-72	PZD13 of bus adapter B	33445	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-73	PZD14 of bus adapter B	33446	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-74	PZD15 of bus adapter B	33447	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-75	PZD16 of bus adapter B	33448	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-76	High word of the output of double word-to-word 1	33453	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-77	Low word of the output of double word-to-word 1	33454	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-78	High word of the output of double word-to-word 2	33455	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U5-79	Low word of the output of double word-to-word 2	33456	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-80	High word of the output of double word-to-word 3	33457	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-81	Low word of the output of double word-to-word 3	33458	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-82	High word of the output of double word-to-word 4	33459	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-83	Low word of the output of double word-to-word 4	33460	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-84	High word of the output of double word-to-word 5	33461	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-85	Low word of the output of double word-to-word 5	33462	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-86	Output of bit-to-word function 1	33463	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-87	Output of bit-to-word function 2	33464	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-88	Output of bit-to-word function 3	33465	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-89	Output of bit-to-word function 4	33466	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U5-91	<I/O module 1> AI1 input proportion	33467	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-92	<I/O module 1> AI2	33470	-8 to +8	0	Signed 16	1	Cannot	General	Effective

	input proportion				bits		be changed	user	in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-93	<I/O module 1> AI3 input proportion	33473	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-94	<I/O module 2> AI1 input proportion	33468	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-95	<I/O module 2> AI2 input proportion	33471	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-96	<I/O module 2> AI3 input proportion	33474	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-97	<I/O module 3> AI1 input proportion	33469	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U5-98	<I/O module 3> AI2 input proportion	33472	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U5-99	<I/O module 3> AI3 input proportion	33475	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-00	Effective value of output current	34353	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-01	Calculated value of output torque	34449	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-02	Output voltage	34355	-8 to +8	0	Signed 16 bits	1	Cannot be	General user	Effective in real

							changed		time
U6-03	Synchronous frequency of motor model output	34534	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-04	Motor model slip output	34535	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-05	Estimated speed of motor model	34536	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-06	Frequency of flux weakening point	34513	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-07	Main reference of torque control ramp	35315	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-08	Speed softening output	34505	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-09	Speed deviation	34506	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-10	Main reference of torque control	33497	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-11	Main reference of torque control filter	33496	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-12	Torque reference limited	34485	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-13	Torque reference before additional torque	34487	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-14	Maximum output torque	34503	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-15	Minimum output torque	34504	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-16	Positive torque limit in speed regulation	34499	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-17	Negative torque limit in speed regulation	34500	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-18	Torque upper limit	33488	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-19	Torque lower limit	33489	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-20	General additional torque	34507	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-21	Friction torque	34508	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-22	Speed regulation PID output	34489	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-23	Automatic torque retention value	33498	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-24	Speed regulation PID integral term	34490	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-25	RFG inertia compensation torque	33491	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-26	Additional torque	33492	-8 to +8	0	Signed 16 bits	1	Cannot be	General user	Effective in real

							changed		time
U6-27	Feedforward torque	34447	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-28	Calculated values of load and friction torque	33493	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-29	Torque reference non-limited	34488	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-30	Calculated torque in overspeed regulation	34501	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-31	Final flux reference	34519	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-32	Flux reference	34514	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-33	Output value of flux curve	34516	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-34	Flux reference after efficiency optimization	34517	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-35	Flux curve filter value	34518	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-36	Output value of flux weakening controller	34515	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-37	Flux detection value	34533	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-38	Output speed of load observer	34509	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U6-39	Output torque of load observer	34510	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-40	Excitation current reference	34544	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-41	Torque current reference	34545	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-42	Excitation current feedback	34370	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-43	Torque current feedback	34371	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-44	Torque current output of speed loop	34486	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-45	Excitation current reference of excitation module	34523	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-46	Torque per ampere	34574	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U6-47	Steady state component of excitation current reference	34520	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-48	Derivative component of excitation current reference	34521	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-49	Flux controller output	34522	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U6-50	SVC additional current reference	34524	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-51	Flux amplitude of current model	34537	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-52	Flux amplitude of voltage model	34538	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-53	Upper limit of torque current	34493	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-54	Lower limit of torque current	34494	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-55	Maximum current that can be outputted	33494	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U6-56	Maximum available torque current	34495	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-57	Calculated value of torque current limit	34496	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-58	Upper limit of power-limited current	34497	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-59	Lower limit of power-limited current	34498	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-60	SVC observation phase of synchronous motor	34539	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-61	SVC observation speed of synchronous motor	34540	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-62	Alpha current	34368	-8 to +8	0	Signed 16	1	Cannot	General	Effective

					bits		be changed	user	in real time
U6-63	Beta current	34369	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-64	Voltage amplitude reference non-limited	34558	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-65	Voltage amplitude reference limited	34559	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-66	V/f reference voltage	33495	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U6-67	Phase-lock loop output phase	34541	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-68	Phase-lock loop output frequency	34542	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-69	ACR output of d-axis	34550	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-70	ACR integral of d-axis	34553	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-71	ACR output of q-axis	34551	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-72	ACR integral of q-axis	34552	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-73	Phase-lock loop output voltage amplitude	34561	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-74	Feedforward voltage of d-axis	34554	-8 to +8	0	Signed 16 bits	1	Cannot be	General user	Effective in real

							changed		time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-75	Feedforward voltage of q-axis	34555	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-76	DC bus voltage	34379	-3276.8 V to +3276.7 V	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U6-77	Maximum available voltage	34512	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-78	Maximum output voltage	34440	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-79	Voltage setpoint of d-axis	34556	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-80	Voltage setpoint of q-axis	34557	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-81	d-axis feedback voltage	34377	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-82	q-axis feedback voltage	34378	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-83	Alpha voltage	34375	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-84	Beta voltage	34376	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-85	Sampling value of phase-U current	34384	-32768 to	0	Signed 16 bits	1	Cannot be	General user	Effective in real

			+32767				changed		time
U6-86	Sampling value of phase-V current	34385	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-87	Sampling value of phase-W current	34386	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-88	Voltage angle	34356	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-89	Synchronous rotation angle	34358	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-90	Encoder feedback speed before filtering	34480	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-91	Current pole position of synchronous motor	34571	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-92	Modulation depth output	34388	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-93	Z signal position	34572	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-94	Flux phase angle	34532	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U6-95	Compensation angle for pulse generation delay	34360	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-96	Effective phase angle of output voltage	34359	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U6-97	Current output angle	34354	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U6-98	Mechanical power of motor	34435	-3276.8 kW to +3276.7 kW	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U6-99	Active power output	34357	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-00	Fixed value 0%	33520	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-01	Fixed value 100%	33521	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-02	Fixed value 200%	33522	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-03	Fixed value 400%	33523	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-04	Fixed value 600%	33524	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-05	Fixed value -100%	33525	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-06	Fixed value -200%	33526	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U7-07	Fixed value -400%	33527	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-08	Fixed value -600%	33528	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-09	Module phase U temperature	33529	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-10	Module phase V temperature	33530	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-11	Module phase W temperature	33531	-32768°C to +32767°C	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-12	Current state machine	33532	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-13	Last state machine	33533	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-14	Second to last state machine	33534	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-15	Third to last state machine	33535	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-16	Fourth to last state machine	33536	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-17	Fifth to last state	33537	0-65535	0	Unsigned	1	Cannot	General	Effective

	machine				16 bit		be changed	user	in real time
U7-18	Sixth to last state machine	33538	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-19	Seventh to last state machine	33539	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-20	Eighth to last state machine	33540	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-21	Ninth to last state machine	33541	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-22	Motor auto-inspection result	33542	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-23	Single-step status	33543	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-24	Motor auto-tuning method	33544	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-25	Auto-inspection auto-tuning status	33545	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-26	Module that is processing model parameters	33547	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Value: 0: Single inverter 1: Module 01 2: Module 02 3: Module 03 4: Module 04 5: Module 05 6: Module 06 7: Module 07 8: Module 08 9: Module 09 10: Module 10

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-27	Model code of single inverter	33546	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-28	Model code of module 01	33548	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-29	Model code of module 02	33549	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-30	Model code of module 03	33550	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-31	Model code of module 04	33551	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-32	Model code of module 05	33552	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-33	Model code of module 06	33553	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-34	Model code of module 07	33554	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-35	Model code of module 08	33555	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U7-36	Model code of module 09	33556	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-37	Model code of module 10	33557	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-38	InoLink status word	36297	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-39	InoLink node online state	36298	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-40	InoLink control word 1	36299	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-41	InoLink control word 2	36300	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-45	Generating power limit	33499	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-46	Motoring power limit	33500	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-47	Output of constant setpoint 1	33514	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-48	Output of constant setpoint 2	33515	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-49	Output of constant	33516	-8 to +8	0	Signed 16	1	Cannot	General	Effective

	setpoint 3				bits		be changed	user	in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-50	Output of constant setpoint 4	35316	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-51	Output of constant setpoint 5	35317	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-52	Power-on monitoring	33519	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-53	DC voltage target value	35047	-3276.8 to +3276.7	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U7-54	DC voltage setpoint	35048	-3276.8 to +3276.7	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-55	PZD1 of optical fiber synchronous expansion module	33622	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-56	PZD2 of optical fiber synchronous expansion module	33623	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-57	PZD3 of optical fiber synchronous expansion module	33624	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-58	PZD4 of optical fiber synchronous expansion module	33625	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-59	PZD5 of optical fiber synchronous	33626	0-65535	0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

	expansion module						changed		time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-60	PZD6 of optical fiber synchronous expansion module	33627	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-61	PZD7 of optical fiber synchronous expansion module	33628	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-62	PZD8 of optical fiber synchronous expansion module	33629	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-65	Value of parameter monitoring parameter 1	34816	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-66	Value of parameter monitoring parameter 2	34817	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-67	Value of parameter monitoring parameter 3	34818	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-68	Value of parameter monitoring parameter 4	34819	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-69	Value of parameter monitoring parameter 5	34820	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-70	Value of parameter monitoring parameter 6	34821	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-71	Value of parameter monitoring parameter 7	34822	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-72	Value of parameter monitoring parameter 8	34823	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-73	Value of parameter monitoring parameter 9	34824	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-74	Value of parameter monitoring parameter 10	34825	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U7-80	DI/DO status of HINT module	34156	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-93	Voltage upper limit in DC voltage stabilization mode	35049	-3276.8 V to +3276.7 V	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-94	Voltage lower limit in DC voltage stabilization mode	35050	-3276.8 V to +3276.7 V	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-95	Module supporting quick block protection in parallel mode	35987	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0-	HPCU	0: Invalid 1: Valid
bit1-	Unit 1/Single inverter	0: Invalid 1: Valid
bit2-	Unit 2	0: Invalid 1: Valid

bit3-	Unit 3	0: Invalid 1: Valid
bit4-	Unit 4	0: Invalid 1: Valid
bit5-	Unit 5	0: Invalid 1: Valid
bit6-	Unit 6	0: Invalid 1: Valid
bit7-	Unit 7	0: Invalid 1: Valid
bit8-	Unit 8	0: Invalid 1: Valid
bit9-	Unit 9	0: Invalid 1: Valid
bit10-	Unit 10	0: Invalid 1: Valid
bit11-	Reserved	0: Invalid 1: Valid
bit12-	Reserved	0: Invalid 1: Valid
bit13-	Reserved	0: Invalid 1: Valid
bit14-	Reserved	0: Invalid 1: Valid
bit15-	Reserved	0: Invalid 1: Valid

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-96	Online module with STO function	33772	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U7-97	Online module with activated STO	33773	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-98	STO input terminal state of current	33480	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

	module						changed		time
	Value: 0: Neither STO1 nor STO2 activated 1: STO1 activated 2: STO2 activated 3: Both STO1 and STO2 activated								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U7-99	CODE_K0250	33513	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U8 Word connector 4

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-00	Current state machine	32768	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

1: System initialization
2: Power-on check
3: Fault
4: Switch-on inhibited
5: Ready to switch on
6: Pre-charging
7: Ready to run
8: Waiting for demagnetization
9: Pre-operation check
10: Pre-excitation
11: Speed tracking
12: Run
13: OFF1 stop
14: OFF3 stop
15: DC braking at start
16: Ready for auto-inspection
17: Auto-inspection
18: Auto-tuning preparation
19: Auto-tuning
20: Parameter recovery
21: Parameter download
22: Jog
23: Jog stop
24: Stop during operation allowed
25: DC braking at stop
26: Waiting for DC braking at stop
27: Stop upon fault
28: Motor parameter calculation
29: Switchover between speed control and torque control
30: Wait for cooling
31: Wait before operation
32: Wait for electromagnetic demagnetization
33: Establishment of electromagnetic demagnetization

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U8-01	Current motor data group (MDS)	32894	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Motor 1 1: Motor 2 2: Motor 3 3: Motor 4								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-02	Current command channel (CMS)	32895	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Command channel 1 1: Command channel 2								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-03	Current RFG	33570	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-04	Current fault code	33571	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-05	Current minor fault code	33572	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-06	Current alarm code	33573	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-07	Control word 1	33574	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Operation/Stop (OFF1	0: OFF1 (stop based on RFG ramp) 1: Operation (rising edge)
bit1	Coast to stop (OFF2)	0: OFF2 (coast to stop) 1: Necessary conditions for operation
bit2	Quick stop (OFF3)	0: OFF3 (quick stop) 1: Necessary conditions for operation
bit3	Operation permission	0: IGBT blocked 1: Operation allowed
bit4	Ramp output inhibition	0: Ramp function generator output being 0 1: Ramp function generator (RFG) enabled
bit5	Ramp output maintained	0: Output of ramp function generator being frozen 1: Ramp function generator in operation
bit6	Ramp input being 0	0: Ramp function generator input speed activated 1: Ramp function generator target speed being 0
bit7	Fault reset	0: Invalid 1: Fault reset (rising edge)
bit8	Jog 1 (JOG1)	0: Invalid 1: Jog 1
bit9	Jog 2 (JOG2)	0: Invalid 1: Jog 2
bit10	Remote control	0: Remote control inactive 1: Remote control active
bit11	Reference speed inversion	0: Disable 1: Enable
bit12	Motorized potentiometer increase	0: Invalid 1: Motorized potentiometer increase command
bit13	Motorized potentiometer decrease	0: Invalid 1: Motorized potentiometer decrease command
bit14	External fault 1	0: Invalid 1: External fault 1 triggered
bit15	External fault 2	0: Invalid 1: External fault 2 triggered

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-08	Control word 2	33575	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
Bit 00	External alarm 1	0: Invalid 1: External alarm 1 triggered
bit1	External alarm 2	0: Invalid 1: External alarm 2 triggered
bit2	Motor data group selection 0 (corresponding to A9-02)	0: 0 1: 1
bit3	Motor data group selection 1 (corresponding to A9-03)	0: 0 1: 1
bit4	Multi-reference selection 1 (corresponding to C6-01)	0: 0 1: 1
bit5	Multi-reference selection 2 (corresponding to C6-02)	0: 0 1: 1
bit6	Multi-reference selection 3 (corresponding to C6-03)	0: 0 1: 1
bit7	Multi-reference selection 4 (corresponding to C6-04)	0: 0 1: 1
bit8	Channel selection (corresponding to A9-00)	0: Activation channel 1 1: Activation channel 2
bit9	Forced speed tracking	0: Start speed tracking enabled or not as defined by E1-00 1: Speed tracking enabled forcibly
bit10	Speed regulator enabled	0: Output of speed regulator set to 0 forcibly 1: Speed regulator working properly
bit11	Reserved	
bit12	Torque control applied forcibly	0: Control mode defined by E0-01 1: Torque control mode applied forcibly
bit13	Reserved	
bit14	Reserved	
bit15	Reserved	

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-09	Status word 1	33576	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value:								

Bit	Name	Value
bit0	Ready to switch on	0: System not ready 1: Ready to switch on
bit1	Ready to run	0: Operation conditions not available 1: Ready to run (DC bus charged)
bit2	Running	0: Not operating 1: Running
bit3	Fault activated	0: No fault 1: Fault activated
bit4	Coast-to-stop activated (OFF2)	0: Coast to stop (OFF2 activated) 1: Not coast to stop (OFF2 not activated)
bit5	Quick stop activated (OFF3)	0: Quick stop (OFF3 activated) 1: No quick stop (OFF3 not activated)
bit6	Switch-on inhibited	0: Switch-on conditions met 1: Power-on blocked, switch-on inhibited
bit7	Alarm/Minor fault activated	0: No alarm/minor fault 1: Alarm/Minor fault activated
bit8	No speed deviation	0: Actual speed deviating from the reference 1: Actual speed following the reference
bit9	IDS control activated	0: IDS control activated 1: IDS control deactivated
bit10	Speed reaching comparison value	0: Actual speed lower than the comparison value 1: Actual speed higher than the comparison value
bit11	Limit reached	0: Torque or current limit reached 1: Torque or current limit not reached
bit12	Brake release	0: Brake applied 1: Brake released
bit13	Speed in positive direction	0: Speed in negative direction 1: Speed in positive direction
bit14	Current reference channel	0: Command channel 1 activated 1: Command channel 2 activated
bit15	IGBT operation	0: IGBT blocked 1: IGBT triggered

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-10	Status word 2	33577	Refer to "Value"	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

Bit	Name	Value
bit0	Ramp enable	0: Ramp function generator inhibited and output being 0 1: Ramp function generator working properly
bit1	Ramp operation	0: Output of the ramp function generator kept to the value of the last cycle 1: Ramp function generator working properly
bit2	Ramp bypass	0: Output of ramp function generator equal to input, with ramp time deactivated 1: Ramp function generator working properly
bit3	Operating normally	0: Not operating or jogging 1: Start by operation (OFF1) command
bit4	Jog	0: Not operating or not jogging 1: Start by jogging command
bit5	Operation permission	0: Operation not allowed 1: Operation allowed
bit6	Parameter auto-tuning	0: Auto-tuning not performed 1: Motor parameter auto-tuning in progress
bit7	Minor fault activated	0: No minor fault at present 1: Minor fault activated
bit8	Alarm activated	0: No alarm at present 1: Alarm activated
bit9	Motor data group selection 0 (corresponding to A9-02)	0: 0 1: 1
bit10	Motor data group selection 1(corresponding to A9-03)	0: 0 1: 1
bit11	SOP-20-880 local control activated	0: SOP-20-880 local control not activated 1: SOP-20-880 local control activated
bit12	Reserved	
bit13	Reserved	
bit14	Reserved	
bit15	Reserved	

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-11	Terminal start/stop control word	33578	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U8-12	SOP-20-880 start/stop control word	33579	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-13	PC start/stop control word	33580	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-14	Custom start/stop control word	33581	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-15	Model observation parameter 1	34481	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-16	Model observation parameter 2	34482	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-17	DI state	33584	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-18	DO state	33585	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-19	Encoder status word (internal)	34387	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-20	Custom fault word 1	34914	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-21	Custom fault word 2	34915	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-22	AI1 input value	33589	-32768	0	Signed 16	1	Cannot	General	Effective

			to +32767		bits		be changed	user	in real time
U8-23	AI2 input value	33590	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-24	HDI1 input value	33591	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-25	HDI2 input value	33592	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-26	AO1 output	33593	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-27	AO2 output	33594	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-28	HDO1 output	33595	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-29	HDO2 output	33596	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-30	Angle processing status word	34570	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-31	Single and double update/edge PWM switching frequency upper limit	34400	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-33	Motor phase	34461	0-65535	0	Unsigned	1	Cannot	General	Effective

	sequence switchover state				16 bit		be changed	user	in real time
U8-34	Sub-code of current fault code	36303	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-35	Sub-code of current minor fault	36304	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-36	Current alarm sub-code	36305	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-37	AdcTime	34401	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-38	Current control mode	35314	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Sensorless vector control (SVC) 1: Feedback vector control (FVC) 2: V/f								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-39	HINT status word 1 of single inverter/General fault word 1 of paralleled inverters	33606	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-40	HINT status word 2 of single inverter/General fault word 2 of paralleled	33607	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	inverters								
U8-41	Number of communication errors of bus adapter A	33608	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-42	Number of communication errors of bus adapter B	33609	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-43	Number of communication errors of bus adapter C	33610	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-44	Parameter setting error code	33481	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

Value:

0: Parameter settings are correct.
1: Conflict of the number of pulse-by-pulse current limit events
2: Conflict between the maximum and minimum values of motorized potentiometer
3: Conflict between RFG arc time 1 and acceleration time 1
4: Conflict between RFG arc time 1 and deceleration time 1
5: Conflict between RFG arc time 2 and acceleration time 2
6: Conflict between RFG arc time 2 and deceleration time 2
7: Conflict between RFG arc time 3 and acceleration time 3
8: Conflict between RFG arc time 3 and deceleration time 3
9: Conflict between RFG arc time 4 and acceleration time 4
10: Conflict between RFG arc time 4 and deceleration time 4
11: Conflict Maximum motor

38: Threshold for applying the brake is set incorrectly.
39: The number of triggering oscilloscope channels (A12.20) exceeds eight during ADC cycle.
40: Conflict between the AO1 signal source selected and the motor temperature detection
41: Conflict between the AO2 signal source selected and the motor temperature detection
42: Custom function block execution sequence conflict (For details, see P9-00 to P9-03.)
43: X point settings of multi-point curve module are not incremental.
44: The threshold for applying all brakes is set improperly.
45: The start/stop control word is the bus adapter but the DP data check bit (N16.10) is not bit10.
46: The parallel function is enabled (A15.00) but the number of

79: The set maximum motor speed (d0-06) exceeds the maximum permissible output of the current carrier frequency. Increase the carrier frequency (A4-02) or A4-40 (when A4-36 = 1) or decrease the minimum carrier frequency ratio (A4-41).
80: The minimum carrier frequency ratio limit (A4-41) is lower than the minimum value allowed by the system.
81: Conflict between the minimum and maximum input frequencies of frequency/torque curves in group n32
82: d0-00 is set to synchronous motor and the control mode is set to V/f. The actual synchronous motor runs in SVC mode.
89: Position correction setting parameter conflict (o19-23 greater than or equal to o19-24)

	speed and minimum speed conflict 12：Conflict between lower limit and upper limit of jump frequency 1 13：Conflict between lower limit and upper limit of jump frequency 2 14：Conflict between lower limit and upper limit of digital setting of torque limit 15：Conflict between lower limit and upper limit of adaptive switchover of speed loop Kp 16：Conflict between low frequency and high frequency of speed loop switchover 17：Conflict between current lower limit and upper limit of adaptive current of current loop proportion 18：Conflict between lower frequency and upper frequency of model switchover 19：Conflict between lower frequency and upper frequency for switching from FVC to SVC 20：Conflict between the minimum and maximum input values of AI1 curve 21：Conflict between the minimum and maximum input values of AI2 curve 22：Conflict between the minimum and maximum output proportions of AO1 curve 23：Conflict between the minimum and maximum output proportions of AO2 curve 24：Conflict between the minimum and maximum input frequencies of the HDI1 curve 25：Conflict between the minimum and maximum input	unit modules enabled is 0. 47：Parameter setting conflict in I/O expansion module 1 (minimum input of AI curve greater than maximum input value or minimum output proportion of AO curve greater than maximum output proportion) 48：Parameter setting conflict in I/O expansion module 2 (minimum input of AI curve greater than maximum input value or minimum output proportion of AO curve greater than maximum output proportion) 49：Parameter setting conflict in I/O expansion module 3 (minimum input of AI curve greater than maximum input value or minimum output proportion of AO curve greater than maximum output proportion) 50：The charging limit curve is set incorrectly (voltage points are not incremental or current points are not incremental). 51：Current feedforward function on low-voltage side is deactivated (current sampling channel is not configured or corresponding current feedforward function is enabled). 52：The voltage detection source on the low voltage side is not configured. 53：The HSVM module corresponding to the voltage detection source on the low voltage LV side is not configured. 54：The HSVM module corresponding to the soft start feedback voltage detection source on the low voltage side is not	90：Position synchronization control setting (o16-02) is the same as feedback source (o15-10). 91：Start segment > End segment in multi-position reference 92：Position reference exceeds the maximum range. 93：Position feedback exceeds the maximum range. 94：Negative software limit > Positive software limit 95：The speed setting of each point of the load monitoring curve in group L15 is not incremental. 96：The undervoltage threshold of load monitoring curve in group L15 is higher than or equal to the overload threshold. 97：InoLink data interaction is excessive. 98：Conflict between upper limit and lower limit of limit module A 99：Conflict between the upper limit and lower limit of limit module B 100：Conflict between the upper limit and lower limit of limit module C 101：Conflict between the upper limit and lower limit of limit module D 102：Conflict between RFG arc time 1 and acceleration time 1 in group C8 103：Conflict between RFG arc time 1 and deceleration time 1 in group C8 104：Conflict between RFG arc time 2 and acceleration time 2 in group C8 105：Conflict between RFG arc time 2 and deceleration time 2 in group C8

	frequencies of the HDI2 curve 26：Conflict between the minimum and maximum output proportions of HDO1 curve 27：Conflict between the minimum and maximum output proportions of HDO2 curve 28：The slot number of the communication card selected by fieldbus adapter A is not set. 29：The slot number of the communication card selected by fieldbus adapter B is not set. 30：The nominal rated current of the drive is higher than 6 x rated current of the motor. 31：The fault reset interval is longer than the fault reset time. 32：Encoder module slot setting conflict 33：I/O expansion module slot setting conflict 34：Fault/Error handling level setting conflict 35：Frequency point settings of the multi-point V/f curve are not incremental. 36：X point settings of multi-point curve module A are not incremental. 37：X point settings of multi-point curve module B are not incremental.	configured. 55：The HSVM module corresponding to the current detection source on the low voltage side is not configured. 56：The HSVM module corresponding to the current detection source on the medium voltage side is not configured. 57：For the undervoltage/overvoltage protection function on the low voltage side, voltage point settings are not incremental. 60：For the voltage stabilizer on the medium voltage side, voltage point settings are not incremental. 61：Conflict between the lower limit and upper limit in the buck mode of setting channel 1 62：Conflict between the lower limit and upper limit in the boost mode of setting channel 1 63：Conflict between the lower limit and upper limit in the buck mode of setting channel 2 64：Conflict between the lower limit and upper limit in the boost mode of setting channel 1 65：The current feedforward function on the medium voltage side is disabled (current sampling channel is not configured but the corresponding current feedforward function is enabled, or the sampling card does not support the current feedforward function on the medium voltage side). 66：Conflict between the voltage detection source on the low voltage side and the soft start feedback voltage detection source on the low voltage side	106：Conflict between RFG arc time 3 and acceleration time 3 in group C8 107：Conflict between RFG arc time 3 and deceleration time 3 in group C8 108：Conflict between RFG arc time 4 and acceleration time 4 in group C8 109：Conflict between RFG arc time 4 and deceleration time 4 in group C8 110：n34-00 or n34-47 adapter A PZD double word setting conflict (adjacent PZD double word output enabled) 111：n36-00 or n36-47 adapter B PZD double word output setting conflict (adjacent PZD double word output enabled) 112：The process data output settings of n1-04 to n1-19/n37-05 to n37-20 do not match the process data displayed in n1-84/n37-87. 113：The process data output settings of n2-04 to n2-19/n38-05 to n38-20 do not match the process data displayed in n2-84/n38-87. 130：Parameter modification conflict of parameter mapping 1 to 16 (different source values written to the same address) 140：E3-60 (Coil IF control) is active but d0-00 is not set to [5：Solenoid]. 501：The number of motor pole pairs is set incorrectly. 502：The motor nameplate parameters are set incorrectly. Check whether the rated voltage, current, and power are set correctly. 503：The no-load current of the

		67：Conflict between the current detection source on the low voltage side and the current detection source on the medium voltage side 68：Read index setting conflict of address mapping adapter A 69：Write index setting conflict of address mapping adapter A 70：Address mapping adapter A write-mapped internal address setting conflict 71：Address mapping adapter B read index setting conflict 72：Address mapping adapter B write index setting conflict 73：Address mapping adapter B write-mapped internal address setting conflict 74：Conflict between write-mapped internal address settings of address mapping adapters A and B 75：The number of I/Os of the DeviceNet module exceeds the maximum value. 77：The card type set by the custom communication card is incorrect. 78：The back EMF corresponding to the maximum speed of the synchronous motor is too high. Inhibiting pulse generation during operating at high speed may damage the drive. If protective measures are set, you can set H0-41 to turn off the alarm.	asynchronous motor is excessively high. Check the motor parameters and perform complete auto-tuning. 504：Rated magnetic flux error. Ensure that the mutual inductance or no-load current is correct. 505：The rotor resistance of the asynchronous motor is abnormal or the rated speed is set incorrectly (d0-05 or d0-04 is incorrect). 506：Asynchronous motor flux weakening curve error. 507：The numbers of pole pairs of the resolver and motor do not match. The number of pole pairs of the motor must be an integer multiple of that of the resolver.

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-45	Carrier frequency (internal)	34393	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U8-46	Carrier period (internal)	34394	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-47	Phase U PWM comparison value (internal)	34390	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-48	Phase V PWM comparison value (internal)	34391	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-49	Phase W PWM comparison value (internal)	34392	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-50	Phase U dead zone compensation value (internal)	34395	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-51	Phase V dead zone compensation value (internal)	34396	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-52	Phase W dead zone compensation value (internal)	34397	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-53	Local status word (internal)	34336	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-54	Program control status word (internal)	34337	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-55	Local protection status word (internal)	34404	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-56	Main status word of	34431	0x0-	0x0	Unsigned	1	Cannot	General	Effective

	motor (internal)		0xFFFF		16 bit		be changed	user	in real time
U8-57	Auxiliary status word of motor (internal)	34432	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-58	Protection status word of motor (internal)	34464	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-59	Speed controller status word (internal)	34484	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-60	Vdc control status word (internal)	34502	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-61	Excitation control status word (internal)	34511	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-62	Motor model status word (internal)	34531	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-63	ACR status word (internal)	34543	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-64	Main status word of drive (internal)	34398	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-65	Auxiliary status word of drive (internal)	34399	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-66	V/f control status word (internal)	34579	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

							changed		time
U8-67	Speed controller proportion coefficient (internal)	34491	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-68	Speed controller integral coefficient (internal)	34492	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-69	Proportional gain of application ACR (internal)	34548	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-70	Integral time of application ACR (internal)	34549	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-71	Communication status of bus adapter A	33611	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-72	Communication status of bus adapter B	33612	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-73	Communication status of bus adapter C	33613	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-74	Status word of FPGA main control operating status control	33615	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-75	Fault word 1 of FPGA operation state control	33616	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-76	Fault word 2 of FPGA operation state	33617	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

	control						changed		time
U8-77	Original value of the number of encoder pulses (FPGA-quadruple frequency)	33618	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-78	Low word of FPGA time	33619	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U8-79	High word of FPGA time	33620	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-80	Imax control frequency adjustment	34580	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-81	Imax control voltage adjustment	34581	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-82	Adjustment value of over-excitation output voltage	34582	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-83	Adjustment value of undervoltage suppression frequency	34583	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-84	Adjustment value of overvoltage suppression frequency	34584	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-85	Adjustment value of overvoltage suppression voltage	34585	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U8-86	Compensation value of slip compensation frequency	34586	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-87	Compensation value of torque boost voltage	34587	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-88	V/f output voltage after energy conservation control	34588	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-89	Superposition value of oscillation suppression frequency	34589	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-90	Performance monitoring variable 0	34415	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-91	Performance monitoring variable 1	34416	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-92	Performance monitoring variable 2	34417	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-93	Performance monitoring variable 3	34418	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-94	Performance monitoring variable 4	34419	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U8-95	Performance monitoring variable 5	34420	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U8-96	Performance monitoring variable 6	34421	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-97	Performance monitoring variable 7	34422	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-98	Performance monitoring variable 8	34423	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U8-99	Performance monitoring variable 9	34424	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-00	Actual motor speed	34702	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-01	Final motor speed reference	34700	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-02	Main speed reference	33630	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-03	Auxiliary speed reference	33632	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-04	Reference speed before forward/reverse rotation limit	33634	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-05	Speed reference without amplitude limit	33636	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

U9-06	Speed reference with amplitude limited	33638	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-07	Speed reference (limited)	33640	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-08	RFG input speed reference	33642	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-09	RFG output speed reference	33644	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-10	Additional speed reference	33646	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-11	Speed reference after superposition	33648	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-12	Position value of encoder pulse count (quadruple frequency)	33774	-214748364 8 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-13	Speed reference after filtering	34716	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-14	Speed feedback after filtering	34718	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-15	Speed feedback after band-stop filtering	34706	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-16	Actual value of output torque	34722	-21474836. 48N · m to +21474836.47N · m	0.00	Signed 32	0.01	Cannot be changed	General user	Effective in real time
U9-18	Maximum positive speed	33650	-8 to +8	0	Signed 32	1	Cannot be	General user	Effective in real

							changed		time
U9-19	Maximum negative speed	33652	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-20	Encoder feedback speed	34708	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-21	Speed calculated based on voltage model	34704	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-23	Sync speed	34698	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-24	Speed reference from keyboard control	33654	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-25	Speed reference from PC control	33656	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-26	Output of word-to-double word 4	33776	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-27	Output of word-to-double word 5	33778	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-28	Encoder detection speed (position synchronization control)	36074	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-29	Motorized potentiometer output	33658	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-30	Output corresponding to the selected	33660	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	multi-reference								
U9-31	Multi-reference 1	33662	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-32	Multi-reference 2	33664	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-33	Multi-reference 3	33666	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-34	Multi-reference 4	33668	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-35	Multi-reference 5	33670	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-36	Multi-reference 6	33672	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-37	Multi-reference 7	33674	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-38	Multi-reference 8	33676	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-39	Multi-reference 9	33678	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-40	Multi-reference 10	33680	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-41	Multi-reference 11	33682	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-42	Multi-reference	33684	-8 to +8	0	Signed	1	Cannot	General	Effective

	12				32		be changed	user	in real time
U9-43	Multi-reference 13	33686	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-44	Multi-reference 14	33688	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-45	Multi-reference 15	33690	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-46	Multi-reference 16	33692	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-47	Output of word-to-double word 1	33694	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-48	Output of word-to-double word 2	33696	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-49	Output of word-to-double word 3	33698	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-50	Double word value set through Modbus communication	33700	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-51	Output of constant setpoint 6	35318	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-52	Output of constant setpoint 7	35320	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-53	Output of constant setpoint 8	35322	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-54	Output of	35324	-8 to +8	0	Signed	1	Cannot	General	Effective

	constant setpoint 9				32		be changed	user	in real time
U9-55	Output of constant setpoint 10	35326	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-56	RFG acceleration	33712	-214748364 8 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-57	Motor rotor angle reference (internal)	34710	-214748364 8 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-58	Motor rotor feedback angle (internal)	34712	-214748364 8 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-59	Step of carrier frequency change angle (internal)	34714	-214748364 8 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-60	PID input deviation (before additional deviation)	34066	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-61	PID input deviation (after additional deviation)	34068	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-62	PID proportional component	34070	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-63	PID integral component	34072	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-64	PID derivative component	34074	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-65	PID output (non-	34076	-8 to +8	0	Signed	1	Cannot be	General	Effective in real

	limited)				32		changed	user	time
U9-66	PID output (limited)	34078	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-67	Output of digital multiplexer module A	33716	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-68	Output of digital multiplexer module B	33718	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-69	Output of filter module A	33720	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-70	Output of filter module B	33722	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-71	Output of filter module C	33724	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-72	Output of filter module D	33726	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-73	Output of absolute value module A	33728	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-74	Output of absolute value module B	33730	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-75	Output of absolute value module C	33732	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-76	Output of absolute value module D	33734	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-77	Output of	33736	-8 to +8	0	Signed	1	Cannot	General	Effective

	ADD/SUBTRACT module A				32		be changed	user	in real time
U9-78	Output of ADD/SUBTRACT module B	33738	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-79	Output of ADD/SUBTRACT module C	33740	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-80	Output of ADD/SUBTRACT module D	33742	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-81	Output of MULTIPLY/DIVIDE module A	33744	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-82	Output of MULTIPLY/DIVIDE module B	33746	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-83	Output of MULTIPLY/DIVIDE module C	33748	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-84	Output of MULTIPLY/DIVIDE module D	33750	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-85	Output of multi-point curve module A	33752	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-86	Output of multi-point curve module B	33754	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-87	Output of digital multiplexer module C	35110	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-88	Output of digital multiplexer module D	35112	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-89	Output of digital multiplexer	35114	-8 to +8	0	Signed 32	1	Cannot be	General user	Effective in real

	module E						changed		time
U9-90	Output of limit module A	35086	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-91	Output of limit module B	35088	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-92	Output of limit module C	35090	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-93	Output of limit module D	35092	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U9-94	Duration of power-on	33764	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U9-95	Duration of operation	33766	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U9-96	Accumulated duration of power-on	33768	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U9-97	Accumulated duration of operation	33770	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U9-98	Output power upon current power-on	37872	0.0-429496729.5	0.0	Unsigned 32	0.1	Cannot be changed	General user	Effective in real time
U9-99	Cumulative output power	37874	0.0-429496729.5	0.0	Unsigned 32	0.1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U10-00	bit0 of the output of custom word-to-bit module 1	35628	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-01	bit1 of the output of custom word-to-bit module 1	35629	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-02	bit2 of the output of custom word-to-bit module 1	35630	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-03	bit3 of the output of custom word-to-bit module 1	35631	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-04	bit4 of the output of custom word-to-bit module 1	35632	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-05	bit5 of the output of custom word-to-bit module 1	35633	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-06	bit6 of the output of custom word-to-bit module 1	35634	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-07	bit7 of the output of custom word-to-bit module 1	35635	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-08	bit8 of the output of custom word-to-bit module 1	35636	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-09	bit9 of the output of custom word-to-bit module 1	35637	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-10	bit10 of the output of custom word-to-bit module 1	35638	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-11	bit11 of the output of custom word-to-bit module 1	35639	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-	bit12 of the output	35640	0-1	0	Boolean	1	Cannot be	General	Effective in

12	of custom word-to-bit module 1				type		changed	user	real time
U10-13	bit13 of the output of custom word-to-bit module 1	35641	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-14	bit14 of the output of custom word-to-bit module 1	35642	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-15	bit15 of the output of custom word-to-bit module 1	35643	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-16	bit0 of the output of custom word-to-bit module 2	35644	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-17	bit1 of the output of custom word-to-bit module 2	35645	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-18	bit2 of the output of custom word-to-bit module 2	35646	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-19	bit3 of the output of custom word-to-bit module 2	35647	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-20	bit4 of the output of custom word-to-bit module 2	35648	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-21	bit5 of the output of custom word-to-bit module 2	35649	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-22	bit6 of the output of custom word-to-bit module 2	35650	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-23	bit7 of the output of custom word-to-bit module 2	35651	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-24	bit8 of the output of custom word-to-bit	35652	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

	module 2								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-25	bit9 of the output of custom word-to-bit module 2	35653	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-26	bit10 of the output of custom word-to-bit module 2	35654	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-27	bit11 of the output of custom word-to-bit module 2	35655	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-28	bit12 of the output of custom word-to-bit module 2	35656	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-29	bit13 of the output of custom word-to-bit module 2	35657	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-30	bit14 of the output of custom word-to-bit module 2	35658	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-31	bit15 of the output of custom word-to-bit module 2	35659	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-32	bit0 of the output of custom word-to-bit module 3	35660	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-33	bit1 of the output of custom word-to-bit module 3	35661	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-34	bit2 of the output of custom word-to-bit module 3	35662	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-35	bit3 of the output of custom word-to-bit module 3	35663	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-	bit4 of the output of	35664	0-1	0	Boolean	1	Cannot be	General	Effective in

36	custom word-to-bit module 3				type		changed	user	real time
U10-37	bit5 of the output of custom word-to-bit module 3	35665	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-38	bit6 of the output of custom word-to-bit module 3	35666	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-39	bit7 of the output of custom word-to-bit module 3	35667	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-40	bit8 of the output of custom word-to-bit module 3	35668	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-41	bit9 of the output of custom word-to-bit module 3	35669	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-42	bit10 of the output of custom word-to-bit module 3	35670	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-43	bit11 of the output of custom word-to-bit module 3	35671	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-44	bit12 of the output of custom word-to-bit module 3	35672	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-45	bit13 of the output of custom word-to-bit module 3	35673	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-46	bit14 of the output of custom word-to-bit module 3	35674	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-47	bit15 of the output of custom word-to-bit module 3	35675	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-48	Output of custom logical AND module	35676	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

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U10-49	Output of custom logical AND module 2	35677	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-50	Output of custom logical AND module 3	35678	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-51	Output of custom logical AND module 4	35679	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-52	Output of custom logical AND module 5	35680	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-53	Output of custom logical AND module 6	35681	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-54	Output of custom logical AND module 7	35682	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-55	Output of custom logical AND module 8	35683	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-56	Output of custom logical AND module 9	35684	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-57	Output of custom logical AND module 10	35685	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-58	Output of custom logical AND module 11	35686	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-59	Output of custom logical AND module 12	35687	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-	Output of custom	35688	0-1	0	Boolean	1	Cannot be	General	Effective in

60	logical AND module 13				type		changed	user	real time
U10-61	Output of custom logical AND module 14	35689	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-62	Output of custom logical AND module 15	35690	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-63	Output of custom logical AND module 16	35691	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-64	Output of custom logical NOT module 1	35692	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-65	Output of custom logical NOT module 2	35693	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-66	Output of custom logical NOT module 3	35694	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-67	Output of custom logical NOT module 4	35695	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-68	Output of custom logical NOT module 5	35696	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-69	Output of custom logical NOT module 6	35697	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-70	Output of custom logical NOT module 7	35698	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-71	Output of custom logical NOT module 8	35699	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-72	Output of custom logical OR module 1	35700	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U10-73	Output of custom logical OR module 2	35701	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-74	Output of custom logical OR module 3	35702	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-75	Output of custom logical OR module 4	35703	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-76	Output of custom logical OR module 5	35704	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-77	Output of custom logical OR module 6	35705	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-78	Output of custom logical OR module 7	35706	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-79	Output of custom logical OR module 8	35707	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-80	Output of custom logical OR module 9	35708	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-81	Output of custom logical OR module 10	35709	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-82	Output of custom logical OR module 11	35710	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-83	Output of custom logical OR module 12	35711	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-84	Output of custom logical XOR/XNOR module 1	35712	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-85	Output of custom logical XOR/XNOR module 2	35713	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-86	Output of custom logical XOR/XNOR module 3	35714	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-	Output of custom	35715	0-1	0	Boolean	1	Cannot be	General	Effective in

87	logical XOR/XNOR module 4				type		changed	user	real time
U10-88	Output of custom logic NAND module 1	35716	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-89	Output of custom logic NAND module 2	35717	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-90	Output of custom logic NAND module 3	35718	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-91	Output of custom logic NAND module 4	35719	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-92	Output of custom binary multiplexer module 1	35720	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-93	Output of custom binary multiplexer module 2	35721	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-94	Output of custom binary multiplexer module 3	35722	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U10-95	Output of custom binary multiplexer module 4	35723	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-96	Output of custom binary multiplexer module 5	35724	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-97	Output of custom binary multiplexer module 6	35725	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-98	Output of custom binary multiplexer module 7	35726	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U10-99	Output of custom binary multiplexer	35727	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

	module 8								

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-00	Output of custom logic delay module 1	35728	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-01	Output of custom logic delay module 2	35729	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-02	Output of custom logic delay module 3	35730	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-03	Output of custom logic delay module 4	35731	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-04	Output of custom level-to-pulse conversion module 1	35732	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-05	Output of custom level-to-pulse conversion module 2	35733	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-06	Output of custom level-to-pulse conversion module 3	35734	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-07	Output of custom level-to-pulse conversion module 4	35735	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-08	Setting flag of custom RS flip-flop module 1	35736	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-09	Reset flag of custom RS flip-flop module 1	35737	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U11-10	Setting flag of custom RS flip-flop module 2	35738	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-11	Reset flag of custom RS flip-flop module 2	35739	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-12	Setting flag of custom RS flip-flop module 3	35740	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-13	Reset flag of custom RS flip-flop module 3	35741	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-14	Setting flag of custom RS flip-flop module 4	35742	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-15	Reset flag of custom RS flip-flop module 4	35743	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-16	Setting flag of custom D flip-flop module 1	35744	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-17	Reset flag of custom D flip-flop module 1	35745	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-18	Setting flag of custom D flip-flop module 2	35746	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-19	Reset flag of custom D flip-flop module 2	35747	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-20	Setting flag of custom D flip-flop module 3	35748	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-21	Reset flag of custom D flip-flop module 3	35749	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-	Setting flag of custom	35750	0-1	0	Boolean	1	Cannot	General	Effective

22	D flip-flop module 4				type		be changed	user	in real time
U11-23	Reset flag of custom D flip-flop module 4	35751	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-24	Output of custom pulse width generator module 1	35752	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-25	Output of custom pulse width generator module 2	35753	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-26	Output of custom pulse width generator module 3	35754	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-27	Output of custom pulse width generator module 4	35755	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-28	Output of custom pulse width generator module 5	35756	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-29	Output of custom pulse width generator module 6	35757	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-30	Output of custom pulse width generator module 7	35758	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-31	Output of custom pulse width generator module 8	35759	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-32	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 1	35760	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-33	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 2	35761	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U11-34	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 3	35762	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-35	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 4	35763	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-36	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 5	35764	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-37	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 6	35765	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-38	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 7	35766	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-39	Divide-by-zero flag of custom MULTIPLY/DIVIDE module 8	35767	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-40	Negative number input flag of custom absolute value module 1	35768	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-41	Negative number input flag of custom absolute value module 2	35769	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-42	Negative number input flag of custom absolute value module 3	35770	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-43	Negative number input flag of custom absolute value module 4	35771	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-44	Output of custom comparison module 1	35772	0-1	0	Boolean type	1	Cannot be	General user	Effective in real

							changed		time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-45	Output of custom comparison module 2	35773	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-46	Output of custom comparison module 3	35774	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-47	Output of custom comparison module 4	35775	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-48	Output upper limit reached flag of custom integral module 1	35776	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-49	Output lower limit reached flag of custom integral module 1	35777	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-50	Output upper limit reached flag of custom integral module 2	35778	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-51	Output lower limit reached flag of custom integral module 2	35779	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-52	Output upper limit reached flag of custom integral module 3	35780	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-53	Output lower limit reached flag of custom integral module 3	35781	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-54	Output upper limit reached flag of custom integral module 4	35782	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-55	Output lower limit reached flag of custom integral module 4	35783	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-	Input upper limit	35784	0-1	0	Boolean	1	Cannot	General	Effective

56	reached flag of custom limit module 1				type		be changed	user	in real time
U11-57	Input lower limit reached flag of custom limit module 1	35785	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-58	Input upper limit reached flag of custom limit module 2	35786	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-59	Input lower limit reached flag of custom limit module 2	35787	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-60	Input upper limit reached flag of custom limit module 3	35788	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-61	Input lower limit reached flag of custom limit module 3	35789	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-62	Input upper limit reached flag of custom limit module 4	35790	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-63	Input lower limit reached flag of custom limit module 4	35791	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-64	Output of custom process setting bit parameter module 1	35792	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-65	Output of custom process setting bit parameter module 2	35793	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-66	Output of custom process setting bit parameter module 3	35794	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-67	Output of custom process setting bit parameter module 4	35795	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-68	Output of custom process setting bit	35796	0-1	0	Boolean type	1	Cannot be	General user	Effective in real

	parameter module 5						changed		time
U11-69	Output of custom process setting bit parameter module 6	35797	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-70	Output limit reached flag of custom process controller module	35798	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-73	Stator resistance auto-tuning start timeout	33087	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-74	Auto-tuned stator resistance incorrect	33088	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-84	Multi-segment timing module level output 1	37893	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-85	Multi-segment timing module level output 2	37894	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-86	Multi-segment timing module level output 3	37895	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-87	Multi-segment timing module level output 4	37896	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-88	Multi-segment timing module level output 5	37897	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-89	Anti-sway control in progress	35864	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U11-90	Anti-sway control enabled	35863	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U11-	Slewing: RFG lock	33192	0-1	0	Boolean	1	Cannot	General	Effective

91					type		be changed	user	in real time
U11-92	Slewing: Torque control mode	33193	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U12 Bit connector 8

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-52	Variable frequency contactor control command	35910	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Off 1: On								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-53	Variable frequency contactor feedback state	35911	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Off 1: On								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-54	Grid contactor control command	35912	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Off 1: On								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-55	Grid contactor feedback state	35913	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Off 1: On								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-56	Grid phase synchronization completion flag	35918	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not completed 1: Completed								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-57	Current operation mode	35919	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Variable frequency mode 1: Grid mode								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-62	[Grid synchronization] OFF1	35941	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U12-63	[Grid synchronization] OFF2	35942	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U12-64	[Grid synchronization] Operation permission	35943	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U12-65	[Grid synchronization] Pulse enable	35944	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-69	[Redundant inverter switchover] Independent start/stop command	37536	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Independent stop 1: Independent start								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U12-70	[Redundant inverter switchover] Apply command	37537	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not applied 1: Applied								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-71	[Redundant inverter switchover] Apply permission	37538	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disable 1: Enable								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-72	[Redundant inverter switchover] Stop command 2	37539	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not stop 1: Stop								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-73	[Redundant inverter switchover] Independent start/stop permission	37540	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disable 1: Enable								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-74	[Redundant inverter switchover] Holding the apply command	37541	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not hold 1: Hold								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U12-75	[Redundant inverter switchover] Apply control	37542	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not applied 1: Applied								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-76	[Redundant inverter switchover] Local contactor control state	37543	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Off 1: On								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-77	[Redundant inverter switchover] Local contactor feedback state	37544	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Off 1: On								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-78	[Redundant inverter switchover] Stop command	37545	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not stop 1: Stop								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-79	[Redundant inverter switchover] Operation enable	37546	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Disable 1: Enable								
Param	Name	Communication	Range	Default	Data	Accuracy	Change	User	Effective

		address			type		mode	authority	mode
U12-80	[Redundant inverter switchover] Operation state	37547	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not in operation 1: In operation								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-81	[Redundant inverter switchover] Stop state	37548	Refer to "Value"	0	Boolean type	1	Cannot be changed	General user	Effective in real time
	Value: 0: Not stop 1: Stop								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U12-90	Motor pre-heating	37876	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U12-91	Motor pre-heating mode activation	37877	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U12-92	Motor pre-heating completion flag	37878	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U15 Word connector 5

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-00	Output of custom bit-to-word module 1	35528	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-01	Output of custom bit-to-word module 2	35529	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-02	Output of custom bit-to-word module 3	35530	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U15-03	Output of custom bit-to-word module 4	35531	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-04	High word of the output of custom double word-to-word module 1	35532	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-05	Low word of the output of custom double word-to-word module 1	35533	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-06	High word of the output of custom double word-to-word module 2	35534	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-07	Low word of the output of custom double word-to-word module 2	35535	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-08	High word of the output of custom double word-to-word module 3	35536	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-09	Low word of the output of custom double word-to-word module 3	35537	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-10	Output of proportional module 1	35293	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-11	Output of proportional module 2	35294	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-12	Output of proportional module 3	35295	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-13	Output of proportional	35296	-8 to +8	0	Signed 16 bits	1	Cannot be	General user	Effective in real

	module 4						changed		time
U15-14	Output of proportional module 5	35297	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-15	Output of proportional module 6	35298	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-16	Output of proportional module 7	35299	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-17	Output of proportional module 8	35300	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-18	Output of proportional module 9	35301	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-19	Output of proportional module 10	35302	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-20	Device load rate	34465	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-21	Motor load rate	34466	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-22	15 V detection voltage inside HCU control board	34832	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
U15-23	24 V detection voltage at HCU control board terminal	34831	0.000-65.535	0.000	Unsigned 16 bit	0.001	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-25	Operating state of ramp module A	36247	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

	Value: 0: Constant speed 1: Acceleration 2: Deceleration								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-50	Status word of ramp module A	36248	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-51	Operating state of ramp module B	36255	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Constant speed 1: Acceleration 2: Deceleration								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-52	Status word of ramp module B	36256	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-53	Slewing: Torque control reference	33194	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-54	Slewing: Traveling speed reference	33195	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-55	High bit of the output of data type conversion module 1	35557	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-56	Low bit of the output of data type conversion module 1	35573	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-57	High bit of the output of data type conversion module 2	35558	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-	Low bit of the	35574	0x0-	0x0	Unsigned	1	Cannot	General	Effective

58	output of data type conversion module 2		0xFFFF		16 bit		be changed	user	in real time
U15-59	High bit of the output of data type conversion module 3	35559	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-60	Low bit of the output of data type conversion module 3	35575	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-61	High bit of the output of data type conversion module 4	35560	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-62	Low bit of the output of data type conversion module 4	35576	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-63	High bit of the output of data type conversion module 5	35561	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-64	Low bit of the output of data type conversion module 5	35577	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-65	High bit of the output of data type conversion module 6	35562	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-66	Low bit of the output of data type conversion module 6	35578	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-67	High bit of the output of data type conversion module 7	35563	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-68	Low bit of the output of data type conversion module 7	35579	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-69	High bit of the output of data type conversion module 8	35564	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-70	Low bit of the output of data type	35580	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

	conversion module 8						changed		time
U15-71	High bit of the output of data type conversion module 9	35565	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-72	Low bit of the output of data type conversion module 9	35581	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-73	High bit of the output of data type conversion module 10	35566	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-74	Low bit of the output of data type conversion module 10	35582	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-75	High bit of the output of data type conversion module 11	35567	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-76	Low bit of the output of data type conversion module 11	35583	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-77	High bit of the output of data type conversion module 12	35568	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-78	Low bit of the output of data type conversion module 12	35584	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-79	High bit of the output of data type conversion module 13	35569	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-80	Low bit of the output of data type conversion module	35585	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

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U15-81	High bit of the output of data type conversion module 14	35570	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-82	Low bit of the output of data type conversion module 14	35586	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-83	High bit of the output of data type conversion module 15	35571	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-84	Low bit of the output of data type conversion module 15	35587	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-85	High bit of the output of data type conversion module 16	35572	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-86	Low bit of the output of data type conversion module 16	35588	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-87	Load monitoring status word	36261	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-88	Load monitoring undervoltage curve output	36262	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-89	Load monitoring overload curve output	36263	0-16	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U15-90	Corresponding angle of Z signal	34576	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U15-91	Z signal deviation angle	34577	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U15-92	Z signal correction angle	34578	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U15-93	Droop voltage in DC voltage stabilization mode	34468	-3276.8 to +3276.7	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U15-94	Additional voltage in DC voltage stabilization mode	34469	-3276.8 to +3276.7	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U15-95	Effective voltage in DC voltage stabilization mode	34470	-3276.8 to +3276.7	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U15-96	Status word of component lifetime detection	37491	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U16 Word connector 6 - Process

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-00	Output proportion in light-load high-speed operation	35840	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-01	Output speed in light-load high-speed operation	35841	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-02	Module status word in light-load high-speed operation	35842	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-03	Load torque	35843	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-04	Real-time load torque	35849	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-07	Anti-sway compensation torque	35854	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-08	Anti-sway observation swing angle	35855	-327.68° to +327.67°	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
U16-09	Speed setpoint before anti-sway	35859	-32.768 m/s to +32.767 m/s	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
U16-10	Speed setpoint after anti-sway	35860	-32.768 m/s to +32.767 m/s	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
U16-11	Anti-sway heavy load speed	35857	-32.768 m/s to +32.767 m/s	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-12	Anti-sway heavy load acceleration	35856	-32.768 m/s^2 to +32.767 m/s^2	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
U16-13	Anti-sway feedback angle (non-filtered)	35861	-327.68° to +327.67°	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
U16-14	Anti-sway feedback angle (filtered)	35862	-327.68° to +327.67°	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
U16-15	Anti-sway lag distance	35865	-32.768 m to +32.767 m	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
U16-	Anti-sway heavy load	35858	-32768	0	Signed 16	1	Cannot	General	Effective

16	swing		mm to +32767 mm		bits		be changed	user	in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-17	Maximum swing of anti-sway	35866	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-18	Current anti-sway length	35867	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
U16-19	Anti-sway amplitude feedback	35868	-32.768 m to +32.767 m	0.000	Signed 16 bits	0.001	Cannot be changed	General user	Effective in real time
U16-20	Anti-sway load	35869	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-21	Redundant inverter switchover state	37553	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Switchover inhibited 1: Ready for switchover 2: Switchover in operation 3: Independent operation in progress 4: Redundant inverter in operation 5: Switched immediately 6: Compensation-based switchover 7: Contactor test in progress								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-22	[Redundant inverter switchover] Control word	37549	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-23	[Redundant inverter switchover] Status word	37550	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-24	[Redundant inverter switchover] Local contactor ON time	37551	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U16-25	[Redundant inverter switchover] Local contactor OFF time	37552	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-48	Three-motor oscillation suppression level	34457	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-50	Grid frequency (filtered)	35923	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-51	Grid frequency	35914	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-52	Grid voltage	35922	0.0-6553.5	0.0	Unsigned 16 bit	0.1	Cannot be changed	General user	Effective in real time
U16-53	Real-time phase of the grid	35916	-3276.8° to +3276.7°	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U16-54	Voltage phase output of the drive	35917	-3276.8° to +3276.7°	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-56	Phase difference between the voltage outputs of the drive and grid	35921	-3276.8° to +3276.7°	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-60	[Grid synchronization] Current state machine	35926	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Invalid 1: Initialization 2: Ready to start 3: Switch-on inhibition 4: Ready to switch on 5: Switching from voltage outputted by the drive to the voltage outputted by the grid 6: Operating at the voltage outputted by the grid 8: Operating at the voltage outputted by the drive 9: Stop as instructed by the drive 10: Contactor test in progress 11: Start at the voltage outputted by the drive directly								

	7：Switching from voltage outputted by the grid to the voltage outputted by the drive								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-61	[Grid synchronization] Last state machine	35927	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： Same as"U16-60"								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-62	[Grid synchronization] Second to last state machine	35928	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： Same as"U16-61"								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-63	[Grid synchronization] Third to last state machine	35929	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： Same as"U16-62"								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-64	[Grid synchronization] Fourth to last state machine	35930	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： Same as"U16-63"								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-65	[Grid synchronization] Fifth to last state machine	35931	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value： Same as"U16-64"								

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-66	Original value of grid phase	34527	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-67	Original value of voltage phase outputted by the drive	34528	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-68	Original value of phase deviation	34526	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-70	[Grid synchronization] Command word	35932	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-71	[Grid synchronization] Control word	35933	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-72	[Grid synchronization] Status word	35934	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-80	Pulse/Frequency A conversion output (before offset)	36223	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
U16-81	Pulse/Frequency A conversion output (after offset)	36224	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
U16-82	Frequency A/Torque curve output proportion (non-filtered)	36225	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-83	Frequency A/Torque curve output proportion (filtered)	36226	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-84	Torque flange feedback torque A (physical)	36227	-3276.8 N·m to +320.00	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time

			N·m						
U16-85	Torque flange feedback torque A (per unit)	36228	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-86	Pulse/Frequency B conversion output (before offset)	36229	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
U16-87	Pulse/Frequency B conversion output (after offset)	36230	0.00-655.35	0.00	Unsigned 16 bit	0.01	Cannot be changed	General user	Effective in real time
U16-88	Frequency B/Torque curve output proportion (before filtering)	36231	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-89	Frequency B/Torque curve output proportion (filtered)	36232	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-90	Torque flange feedback torque B (physical)	36233	-3276.8 N·m to +320.00 N·m	0.0	Signed 16 bits	0.1	Cannot be changed	General user	Effective in real time
U16-91	Torque flange feedback torque B (per unit)	36234	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U16-92	Pulse counting value	36309	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-93	Torque setpoint before soft torque	34573	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-94	Measured angle of encoder 1	35981	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-95	Measured revolutions of encoder 1	35984	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U16-96	Measured angle of encoder 2	35982	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-97	Measured revolutions of encoder 2	35985	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U16-98	Measured angle of encoder 3	35983	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U16-99	Measured revolutions of encoder 3	35986	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U17 Word connector 7

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-00	Position control state	36010	Refer to "Value"	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
	Value: 0: Invalid 1: Enabled 2: Initializing 3: Waiting for position synchronization 4: Position synchronization in progress 5: Home invalid 6: Homing in progress 7: Home valid 8: Waiting for positioning to start 9: Positioning in progress 10: Hold in the positioning completion state 11: Interrupt positioning in progress 12: Position control pause								
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-01	Position controller status word 1	36064	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-02	Position controller status word 2	36065	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-03	Position controller command word 1	36066	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U17-04	Position controller command word 2	36067	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-05	Positioning control status word 1	36068	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-06	Positioning control status word 2	36069	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-07	Positioning control command word 1	36070	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-08	Positioning control command word 2	36071	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-09	Synchronous control status word	36072	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-10	Sync control command word	36073	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-20	Real-time position deviation	36102	-32768 LU to +32767 LU	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-21	Home deviation compensation	36103	-32768 LU to +32767 LU	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-22	External deviation compensation	36104	-32768 LU to +32767 LU	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-23	Internal deviation compensation	36105	-32768 LU	0	Signed 16 bits	1	Cannot be	General user	Effective in real

			to +32767 LU				changed		time
U17-27	Current balance in parallel mode	34591	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-28	Demodulated amplitude of the sine-cosine encoder	34590	-327.68 V to +327.67 V	0.00	Signed 16 bits	0.01	Cannot be changed	General user	Effective in real time
U17-29	Speed controller status word 2	34483	0x8000-0x7FFF	0x0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-30	IV_ExcitCurrentFeedback	34425	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-31	IV_TorqueCurrentFeedback	34426	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-32	IV_IampRMS	34427	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-33	IV_Vamp	34428	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-34	IV_TeOutput	34429	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-35	IF separation current target value (limited)	37884	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-36	IF separation current setting	37885	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-37	IF frequency target value	37886	-8 to +8	0	Signed 16 bits	1	Cannot be	General user	Effective in real

							changed		time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-38	IF frequency reference	37887	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-39	Leakage current	34364	-8 to +8	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-50	STO signal display 1 of HINT module (unit 1 - unit 5)	33508	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-51	STO signal display 2 of HINT module (unit 6 - unit 10)	33509	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-52	Function test monitoring variable 0	36897	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-53	Function test monitoring variable 1	36898	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-54	Function test monitoring variable 2	36899	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-55	Function test monitoring variable 3	36900	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-56	Function test monitoring variable 4	36901	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-57	Function test monitoring variable 5	36902	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-58	Function test monitoring variable 6	36903	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-	Function test monitoring	36904	-32768	0	Signed	1	Cannot	General	Effective

59	variable 7		to +32767		16 bits		be changed	user	in real time
U17-60	Function test monitoring variable 8	36905	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-61	Function test monitoring variable 9	36906	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-67	Current fault code (code and sub-code)	36405	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-68	Current minor fault code (code and sub-code)	36406	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-69	Current alarm code (code and sub-code)	36407	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-70	Log monitoring variable 1	36364	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-71	Log monitoring variable 2	36365	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-72	Log monitoring variable 3	36366	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-73	Log monitoring variable 4	36367	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-74	Log monitoring variable 5	36368	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-75	Log monitoring variable 6	36369	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-76	Log monitoring variable 7	36370	0-65535	0	Unsigned 16 bit	1	Cannot be	General user	Effective in real

							changed		time
U17-77	Log monitoring variable 8	36371	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-78	Log monitoring variable 9	36372	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-79	Log monitoring variable 10	36373	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-80	Threshold of brake failure protection detection count	37499	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-82	Soft pump control status word (local)	36271	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-84	Number of soft pumps that put into operation	36280	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-85	Master pump cycle	36274	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-86	Slave pump cycle	36275	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-87	Ideal phase difference time of the master/slave pump	36281	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-88	Actual phase difference time of the master/slave pump	36276	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-89	Number of master pump cycles	36277	0-65535	0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-	Number of slave pump	36278	0-	0	Unsigned	1	Cannot	General	Effective

90	cycles		65535		16 bit		be changed	user	in real time
U17-95	Free WORD RAM monitoring 1	36374	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-96	Free WORD RAM monitoring 2	36375	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U17-97	Free WORD RAM monitoring 3	36376	0x8000-0x7FFF	0x0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U17-98	Free WORD RAM monitoring 4	36377	0x8000-0x7FFF	0x0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U17-99	Free WORD RAM monitoring 5	36378	0x8000-0x7FFF	0x0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U19: Double-word connector 2

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-00	Output of custom word-to-double word module 1	35328	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-01	Output of custom word-to-double word module 2	35330	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-02	Output of custom word-to-double word module 3	35332	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-03	Output of custom digital multiplexer module 1	35334	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-04	Output of custom digital multiplexer module 2	35336	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication	Range	Default	Data	Accuracy	Change	User	Effective

		address			type		mode	authority	mode
U19-05	Output of custom digital multiplexer module 3	35338	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-06	Output of custom digital multiplexer module 4	35340	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-07	Output of custom digital multiplexer module 5	35342	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-08	Output of custom digital multiplexer module 6	35344	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-09	Output of custom digital multiplexer module 7	35346	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-10	Output of custom digital multiplexer module 8	35348	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-11	Output of custom digital multiplexer module 9	35350	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-12	Output of custom digital multiplexer module 10	35352	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-13	Output of custom digital multiplexer module 11	35354	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-14	Output of custom digital multiplexer module 12	35356	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-15	Output of custom filter module 1	35358	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-16	Output of custom filter module 2	35360	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

U19-17	Output of custom filter module 3	35362	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-18	Output of custom filter module 4	35364	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-19	Output of custom filter module 5	35366	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-20	Output of custom filter module 6	35368	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-21	Output of custom filter module 7	35370	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-22	Output of custom filter module 8	35372	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-23	Output of custom ADD/SUBTRACT module 1	35374	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-24	Output of custom ADD/SUBTRACT module 2	35376	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-25	Output of custom ADD/SUBTRACT module 3	35378	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-26	Output of custom ADD/SUBTRACT module 4	35380	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-27	Output of custom ADD/SUBTRACT module 5	35382	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-28	Output of custom ADD/SUBTRACT module 6	35384	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-	Output of custom	35386	-8 to	0	Signed	1	Cannot	General	Effective

29	ADD/SUBTRACT module 7		+8		32		be changed	user	in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-30	Output of custom ADD/SUBTRACT module 8	35388	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-31	Output of custom MULTIPLY/DIVIDE module 1	35390	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-32	Output of custom MULTIPLY/DIVIDE module 2	35392	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-33	Output of custom MULTIPLY/DIVIDE module 3	35394	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-34	Output of custom MULTIPLY/DIVIDE module 4	35396	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-35	Output of custom MULTIPLY/DIVIDE module 5	35398	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-36	Output of custom MULTIPLY/DIVIDE module 6	35400	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-37	Output of custom MULTIPLY/DIVIDE module 7	35402	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-38	Output of custom MULTIPLY/DIVIDE module 8	35404	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-39	Output of custom absolute value module 1	35406	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-40	Output of custom absolute value module 2	35408	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

U19-41	Output of custom absolute value module 3	35410	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-42	Output of custom absolute value module 4	35412	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-43	Output of custom inversion module 1	35414	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-44	Output of custom inversion module 2	35416	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-45	Output of custom inversion module 3	35418	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-46	Output of custom inversion module 4	35420	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-47	Output of custom inversion module 5	35422	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-48	Output of custom inversion module 6	35424	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-49	Output of custom inversion module 7	35426	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-50	Output of custom inversion module 8	35428	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-51	Output of custom integral module 1	35430	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-52	Output of custom integral module 2	35432	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-	Output of custom integral	35434	-8 to	0	Signed	1	Cannot	General	Effective

53	module 3		+8		32		be changed	user	in real time
U19-54	Output of custom integral module 4	35436	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-55	Output of custom derivative module 1	35438	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-56	Output of custom derivative module 2	35440	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-57	Output of custom derivative module 3	35442	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-58	Output of custom derivative module 4	35444	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-59	Output of custom limit module 1	35446	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-60	Output of custom limit module 2	35448	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-61	Output of custom limit module 3	35450	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-62	Output of custom limit module 4	35452	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-63	Output of custom multi-point curve module 1	35454	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-64	Output of custom multi-point curve module 2	35456	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode

U19-65	Output of custom multi-point curve module 3	35458	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-66	Output of custom multi-point curve module 4	35460	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-67	Output of custom process setting word parameter module 1	35462	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-68	Output of custom process setting word parameter module 2	35464	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-69	Output of custom process setting word parameter module 3	35466	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-70	Output of custom process setting word parameter module 4	35468	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-71	Output of custom process setting word parameter module 5	35470	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-72	Output of custom process setting word parameter module 6	35472	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-73	Output of custom process setting word parameter module 7	35474	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-74	Output of custom process setting word parameter module 8	35476	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-75	Output of custom process setting word parameter module 9	35478	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-76	Output of custom process setting word parameter module 10	35480	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-	Output of custom	35482	-8 to	0	Signed	1	Cannot	General	Effective

77	process setting word parameter module 11		+8		32		be changed	user	in real time
U19-78	Output of custom process setting word parameter module 12	35484	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-79	Output of custom process setting word parameter module 13	35486	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-80	Output of custom process setting word parameter module 14	35488	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-81	Feedback value of custom process controller module	35490	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-82	Feedback value of the processed absolute value of custom process controller module	35492	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-83	Derivative component of custom process controller module	35494	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-84	Reference of custom process controller module	35496	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-85	Filtered reference of custom process controller module	35498	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-86	Deviation of custom process controller module	35500	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-87	Deviation of custom process controller module after droop	35502	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-88	Proportion component of custom process controller module	35504	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-	Integral component of	35506	-8 to	0	Signed	1	Cannot	General	Effective

89	custom process controller module		+8		32		be changed	user	in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-90	Upper limit of custom process controller module	35508	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-91	Lower limit of custom process controller module	35510	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-92	Upper limit of custom process controller module after inversion	35512	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-93	Output of custom process controller module	35514	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-94	Output value of custom process controller module after scale-up	35516	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U19-95	Output of proportional module 11	35518	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-96	Output of proportional module 12	35520	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-97	Output of proportional module 13	35522	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-98	Output of proportional module 14	35524	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U19-99	Output of proportional module 15	35526	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

U20 Bit connector 11

Param	Name	Communication	Range	Default	Data	Accuracy	Change	User	Effective

		address			type		mode	authority	mode
U20-00	Activation of position control setting	36017	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-01	Ready for positioning control	36080	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-02	Positioning control in progress	36081	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-03	Interrupt positioning in progress	36082	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-04	Positioning completed	36083	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U20-05	Effective state of position control	36106	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-06	Waiting for positioning completion	36107	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-11	Ready for synchronous control	36084	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-12	Synchronous control in progress	36085	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-17	Position lock state	36009	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U20-18	Target position approached	36018	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-19	Positioning completed	36019	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-20	Excessive position deviation	36020	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-21	Operation pause in position control	36092	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-22	Activation of the home in position control	36093	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication	Range	Default	Data	Accuracy	Change	User	Effective

		address			type		mode	authority	mode
U20-23	Positive speed limited in position control	36108	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time
U20-24	Negative speed limited in position control	36109	0-1	0	Boolean type	1	Cannot be changed	General user	Effective in real time

U25 Word connector 9

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-00	PZD17 of bus adapter A	37134	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-01	PZD18 of bus adapter A	37135	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-02	PZD19 of bus adapter A	37136	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-03	PZD20 of bus adapter A	37137	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-04	PZD21 of bus adapter A	37138	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-05	PZD22 of bus adapter A	37139	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-06	PZD23 of bus adapter A	37140	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-07	PZD24 of bus adapter A	37141	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-08	PZD25 of bus adapter A	37142	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-09	PZD26 of bus adapter A	37143	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-10	PZD27 of bus adapter A	37144	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-11	PZD28 of bus adapter A	37145	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U25-12	PZD29 of bus adapter A	37146	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-13	PZD30 of bus adapter A	37147	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-14	PZD31 of bus adapter A	37148	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-15	PZD32 of bus adapter A	37149	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-16	PZD17 of bus adapter B	37150	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-17	PZD18 of bus adapter B	37151	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-18	PZD19 of bus adapter B	37152	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-19	PZD20 of bus adapter B	37153	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-20	PZD21 of bus adapter B	37154	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-21	PZD22 of bus adapter B	37155	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-22	PZD23 of bus adapter B	37156	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-23	PZD24 of bus adapter B	37157	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-24	PZD25 of bus adapter B	37158	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-25	PZD26 of bus adapter B	37159	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-26	PZD27 of bus adapter B	37160	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-27	PZD28 of bus adapter B	37161	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-28	PZD29 of bus adapter B	37162	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time

U25-29	PZD30 of bus adapter B	37163	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-30	PZD31 of bus adapter B	37164	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-31	PZD32 of bus adapter B	37165	0x0-0xFFFF	0x0	Unsigned 16 bit	1	Cannot be changed	General user	Effective in real time
U25-71	Decoupling output 1	34450	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U25-72	Decoupling output 2	34451	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
U25-73	Additional output 1	34452	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U25-74	Additional output 2	34453	-32768 to +32767	0	Signed 16 bits	1	Cannot be changed	General user	Effective in real time

U29 Double-word connector 3

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-00	Current absolute position	36013	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-02	Target position setting	36096	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-03	Effective target position	36021	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-	Remaining	36110	-2147483648 LU to	0	Signed	1	Cannot be	General	Effective in real

04	distance		+2147483647 LU		32		changed	user	time
U29-05	Real-time position deviation	36043	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-06	Input position (position controller)	36029	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-07	Input speed (position controller)	36051	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-08	Input acceleration (position controller)	36053	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-09	Position Kp adjustment (position controller)	36037	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-10	Speed Kv feedforward (position controller)	36015	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-11	Acceleration Kv feedforward (position controller)	36039	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-12	Non-filtered output position (positioner)	36023	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-13	Non-filtered output speed (positioner)	36025	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-14	Non-filtered output	36027	-8 to +8	0	Signed 32	1	Cannot be	General user	Effective in real

	acceleration (positioner)						changed		time
U29-15	Non-filtered feedback position	36033	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-16	Filtered feedback position	36035	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-17	Numerator of internal p-to-Lu coefficient (Lu)	36045	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U29-18	Denominator of internal p-to-Lu coefficient (P)	36047	0-4294967295	0	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U29-19	Position control output speed (non-limited)	36041	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-20	Position control output speed (limited)	36055	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-21	Home deviation compensation	36094	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-22	External deviation compensation	36031	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-23	Internal deviation compensation	36062	-2147483648 LU to +2147483647 LU	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-26	Pulse counting position value	36310	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

			+2147483647				changed		time
U29-27	Output of the setpoint of the multi-segment timing module	37898	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-30	Free double word RAM monitoring 1	36379	0x00000000-0xFFFFFFFF	0x00000000	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U29-31	Free double word RAM monitoring 2	36381	0x00000000-0xFFFFFFFF	0x00000000	Unsigned 32	1	Cannot be changed	General user	Effective in real time
U29-32	Free double word RAM monitoring 3	36383	0x80000000-0x7FFFFFFF	0x00000000	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-33	Free double word RAM monitoring 4	36385	0x80000000-0x7FFFFFFF	0x00000000	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-34	Free double word RAM monitoring 5	36387	0x80000000-0x7FFFFFFF	0x00000000	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-40	Pulse position value of encoder 1 (quadruple frequency)	34047	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-41	Pulse position value of encoder 2 (quadruple frequency)	34049	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-42	Pulse position value of encoder 3 (quadruple frequency)	34051	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-46	Non-filtered encoder feedback	34730	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	speed								
U29-50	Ramp A input setting	36241	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-51	Ramp A output setting	36243	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-52	Acceleration of ramp A	36245	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-53	Ramp B input setting	36249	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-54	Ramp B output setting	36251	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-55	Acceleration of ramp B	36253	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-60	Torque flange pulse A position value	36235	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-61	Torque flange pulse B position value	36237	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-64	Position value recorded for automatic switch-on upon brake failure	37497	-8 to +8	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-70	PZD1+PZD2 data input (after base value conversion) of adapter A	36477	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-	PZD2+PZD3 data input	36479	-2147483648 to	0	Signed	1	Cannot be	General	Effective in real

71	(after base value conversion) of adapter A		+2147483647		32		changed	user	time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-72	PZD3+PZD4 data input (after base value conversion) of adapter A	36481	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-73	PZD4+PZD5 data input (after base value conversion) of adapter A	36483	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-74	PZD5+PZD6 data input (after base value conversion) of adapter A	36485	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-75	PZD6+PZD7 data input (after base value conversion) of adapter A	36487	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-76	PZD7+PZD8 data input (after base value conversion) of adapter A	36489	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-77	PZD8+PZD9 data input (after base value	36491	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

	conversion) of adapter A								
U29-78	PZD9+PZD10 data input (after base value conversion) of adapter A	36493	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-79	PZD10+PZD11 data input (after base value conversion) of adapter A	36495	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-80	PZD11+PZD12 data input (after base value conversion) of adapter A	36497	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-81	PZD12+PZD13 data input (after base value conversion) of adapter A	36499	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-82	PZD13+PZD14 data input (after base value conversion) of adapter A	36501	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-83	PZD14+PZD15 data input (after base value conversion) of adapter A	36503	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-84	PZD15+PZD16 data input	36505	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	(after base value conversion) of adapter A		+2147483647				changed		time
U29-85	PZD1+PZD2 data input (after base value conversion) of adapter B	36597	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-86	PZD2+PZD3 data input (after base value conversion) of adapter B	36599	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-87	PZD3+PZD4 data input (after base value conversion) of adapter B	36601	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-88	PZD4+PZD5 data input (after base value conversion) of adapter B	36603	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-89	PZD5+PZD6 data input (after base value conversion) of adapter B	36605	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-90	PZD6+PZD7 data input (after base value conversion) of adapter B	36607	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

U29-91	PZD7+PZD8 data input (after base value conversion) of adapter B	36609	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-92	PZD8+PZD9 data input (after base value conversion) of adapter B	36611	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-93	PZD9+PZD10 data input (after base value conversion) of adapter B	36613	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-94	PZD10+PZD11 data input (after base value conversion) of adapter B	36615	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-95	PZD11+PZD12 data input (after base value conversion) of adapter B	36617	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-96	PZD12+PZD13 data input (after base value conversion) of adapter B	36619	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U29-97	PZD13+PZD14 data input	36621	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	(after base value conversion) of adapter B		+2147483647				changed		time
U29-98	PZD14+PZD15 data input (after base value conversion) of adapter B	36623	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U29-99	PZD15+PZD16 data input (after base value conversion) of adapter B	36625	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

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Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U39-00	PZD17+PZD18 data input (after base value conversion) of adapter A	36812	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-01	PZD18+PZD19 data input (after base value conversion) of adapter A	36814	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-02	PZD19+PZD20 data input (after base value conversion) of adapter A	36816	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-03	PZD20+PZD21 data input (after base value conversion) of adapter A	36818	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-04	PZD21+PZD22 data input (after base value conversion) of adapter A	36820	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U39-05	PZD22+PZD23 data input (after base value conversion) of adapter A	36822	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-06	PZD23+PZD24 data input (after base value conversion) of adapter A	36824	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-07	PZD24+PZD25 data input (after base value conversion) of adapter A	36826	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-08	PZD25+PZD26 data input (after base value conversion) of adapter A	36828	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-09	PZD26+PZD27 data input (after base value conversion) of adapter A	36830	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U39-10	PZD27+PZD28 data input (after base value conversion) of adapter A	36832	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-11	PZD28+PZD29 data input (after base value conversion) of adapter A	36834	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-12	PZD29+PZD30 data input (after base value conversion) of adapter A	36836	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-13	PZD30+PZD31 data input (after base value conversion) of adapter A	36838	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-14	PZD31+PZD32 data input (after base	36840	-2147483648 to	0	Signed 32	1	Cannot be	General user	Effective in real

	value conversion) of adapter A		+2147483647				changed		time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U39-15	PZD17+PZD18 data input (after base value conversion) of adapter B	37506	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-16	PZD18+PZD19 data input (after base value conversion) of adapter B	37508	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-17	PZD19+PZD20 data input (after base value conversion) of adapter B	37510	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-18	PZD20+PZD21 data input (after base value conversion) of adapter B	37512	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-19	PZD21+PZD22 data input (after base value conversion) of adapter B	37514	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U39-20	PZD22+PZD23 data input (after base value conversion) of adapter B	37516	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-21	PZD23+PZD24 data input (after base value conversion) of adapter B	37518	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-22	PZD24+PZD25 data input (after base value conversion) of adapter B	37520	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-23	PZD25+PZD26 data input (after base value conversion) of adapter B	37522	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

U39-24	PZD26+PZD27 data input (after base value conversion) of adapter B	37524	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
Param	Name	Communication address	Range	Default	Data type	Accuracy	Change mode	User authority	Effective mode
U39-25	PZD27+PZD28 data input (after base value conversion) of adapter B	37526	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-26	PZD28+PZD29 data input (after base value conversion) of adapter A	37528	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-27	PZD29+PZD30 data input (after base value conversion) of adapter B	37530	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-28	PZD30+PZD31 data input (after base value conversion) of adapter B	37532	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time
U39-29	PZD31+PZD32 data input (after base value conversion) of adapter B	37534	-2147483648 to +2147483647	0	Signed 32	1	Cannot be changed	General user	Effective in real time

2 List of fault codes

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
1-1	Current detection circuit error	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-2	15 V power supply error	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-3	EEPROM error	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-4	Model download failure	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-5	HCU-FPGA software update failure	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-6	HINT-FPGA software update failure	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-8	EEPROM parameter-read timeout	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
1-9	EEPROM parameter saving timeout	0: Coast to stop	0: Coast to stop	Next power-on	page 错误! 未定义书签。
2-1	Hardware overcurrent	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
2-2	Software overcurrent	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
2-6	Phase-U hardware overcurrent	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
2-7	Phase-V hardware overcurrent	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
2-8	Phase-W hardware overcurrent	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
2-10	Instantaneous overcurrent of synchronous motor	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
5-1	DC overvoltage	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
5-3	The bus voltage is high during simulation.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
9-1	DC undervoltage	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
9-2	Low voltage fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
10-1	Drive overload	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
10-2	Pulse-by-pulse current limit fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
11-1	The motor is overloaded.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
13-1	Phase U loss occurs.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
13-2	Phase V loss occurs.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
13-3	Phase W loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
13-4	Two- or three-phase loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
14-1	Phase-U module overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
14-2	Phase-V module overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
14-3	Phase-W module overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
14-4	Temperature switch fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
14-5	Rectifier module overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
14-7	Control chamber overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
15-1	External fault 1	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
15-2	External fault 2	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
15-3	Motor overtemperature	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-1	Static auto-tuning failure of UV/UW sampling gain scaling	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-2	Static auto-tuning failure of stator resistance and transistor voltage drop	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-3	Static auto-tuning failure of rotor resistance and leakage inductance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-4	No-load auto-tuning failure of no-load current and mutual	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	inductance				
19-6	Failure of motor auto-tuning and load inertia auto-tuning	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-7	Dead zone auto-tuning failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-8	Rotor resistance auto-tuning result out-of-range	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-9	Asynchronous motor with-load auto-tuning failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-10	Synchronous motor pole auto-tuning failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-11	Synchronous motor pole auto-tuning current search failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-12	Failure to obtain the Z signal during synchronous motor auto-tuning	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-13	Synchronous motor with-load auto-tuning failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-14	High-frequency injection auto-tuning fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-15	Auto-tuning failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
19-16	Auto-tuning interrupted	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-1	Encoder cable disconnection (hardware detection)	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-2	Encoder parameter error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-4	The motor runs with no encoder in FVC mode.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-5	Encoder speed test	0: Coast to stop	0: Coast to stop	Manual reset	page 错误!

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	fluctuation exceeding the allowable range				未定义书签。
20-6	Passive switchover from FVC to SVC	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-8	Z signal interference fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-9	Z signal loss fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-10	The software version of the encoder signal detection module is too low.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-11	The software version of the encoder signal detection module does not match.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
20-12	Absolute position encoder angle error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-1	The encoder is not connected.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-2	Wrong encoder pulses per revolution	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-3	Position detection error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-4	Incorrect basic motor parameters	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-5	Wrong motor expansion parameters	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-15	Encoder signal interference	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
22-16	Magnetic field saturation coefficient auto-tuning failure of asynchronous motor	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
31-1	PID feedback loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
32-1	Fan status fault	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
32-2	MD880 inverter fan status fault	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
42-1	Excessive speed deviation of motor	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
43-1	Motor speed out-of-limit	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-1	Encoder detection module 1 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-2	Encoder detection module 2 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-3	Encoder detection module 3 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-4	I/O module 1 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		speed 5: Operated at limited torque 6: Display alarm only			
44-5	I/O module 2 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-6	I/O module 3 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-7	Bus adapter A activated but offline, configured communication card offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-8	Bus adapter B activated but offline, configured communication card offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
44-9	Redundant bus adapter activated but offline, configured communication card offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-10	Synchronous voltage detection module activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-11	Dual-port RAM card activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
44-12	Synchronous voltage detection module 1 activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
44-15	HSTM-10 module activated but offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-1	Slot address conflict between encoder detection modules 1 and 2	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-2	Slot address conflict between encoder detection modules 1 and 3	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-3	Slot address conflict	0: Coast to stop	0: Coast to stop	Manual reset	page 错误!

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	between encoder detection modules 2 and 3	1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			未定义书签。
45-4	Slot address conflict between I/O modules 1 and 2	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-5	Slot address conflict between I/O modules 1 and 3	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-6	Slot address conflict between I/O modules 2 and 3	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		6: Display alarm only			
45-7	Slot address range conflict between bus adapters A and B	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-8	Slot address segment conflict between bus adapter A and the redundant bus adapter	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
45-9	Slot address segment conflict of bus adapter B and the redundant bus adapter	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
46-1	Parameters are set incorrectly.	6: Display alarm only; 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
46-3	Simulation mode activation	6: Display alarm only; 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
47-1	STO1 input activation	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
47-2	STO2 input activated	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误!

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
					未定义书签。
47-4	STO power supply fault	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
47-5	STO1 pulse auto-test error	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
47-6	STO2 pulse auto-test error	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
47-7	STO1 buffer error	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
47-8	STO2 buffer error	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
47-9	STO input activated	0: Coast to stop	0: Coast to stop	Auto reset/Manual reset	page 错误! 未定义书签。
48-1	Motor overtemperature	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
50-1	No SD card is detected.	6: Display alarm only; 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
50-2	SD card error	6: Display alarm only; 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
51-1	Insufficient power supply for HCU-RTC unit	6: Display alarm only; 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
51-2	HCU-RTC read/write timeout	6: Display alarm only; 7: No action	6: Display alarm only	Next power-on	page 错误! 未定义书签。
52-1	IDS communication fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
52-2	SOP-20-880 communication fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-1	CRC error in data received by HINT	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
					签。
53-2	HINT ID authentication error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-3	Data reception failure of HCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-4	CRC error in data received by HCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-5	HINT sync fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-6	PWM data-write timeout	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-7	Data reception failure of HINT	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-8	CRC error in HCU data received by HPCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-9	HCU data reception failure of HPCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-10	CRC error in HINT data received by HPCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-11	HINT data reception failure of HPCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-12	HPCU synchronization error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
53-13	HINT not ready	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
57-1	Phase U upper bridge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
57-2	Phase-U lower bridge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
57-3	Phase-V upper bridge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
57-4	Phase-V lower bridge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
57-5	Phase-W upper bridge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
57-6	Phase-W lower bridge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
57-7	IGBT fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-1	The IGBT module is short-circuited.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-2	The inverter output is short circuited.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-3	AC drive output phase loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-4	Sensor detection error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-5	Sensor inversely installed	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-6	Short circuit to ground	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-7	Three-phase current unbalance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-8	Two-phase current imbalance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
58-16	Auto-inspection interrupt	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
59-1	The phase U module temperature is too low.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
59-2	Phase V module temperature too low	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		5: Operated at limited torque 6: Display alarm only			
59-3	Phase-W module temperature too low	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
59-4	Rectifier module temperature too low	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
60-1	Ambient temperature too high	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
61-1	Speed tracking current too large	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
61-2	Speed tracking time too long	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
61-5	HSVM card not connected or not enabled	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
63-1	External alarm 1	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
63-2	External alarm 2	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
63-3	Motor overtemperature alarm	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
63-4	OFF2/OFF3 stop	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
64-1	Pre-charge failure 1	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
64-2	Pre-charge failure 2	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
65-1	Restoring-to-default interrupted due to error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
65-2	Parameter downloading interrupted (restoration from the SD card)	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
65-3	Parameter cache capacity exceeded	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
65-4	Parameter-storage timeout during parameter download	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
66-2	Excessive leakage current (software detection)	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-1	External bus timeout	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-2	Incorrect communication	0: Coast to stop 1: Emergency stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	parameter setting	2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
67-3	Bus address conflict of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-4	PZD1 data CRC error for DP communication of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-5	EtherNet/IP Ethernet hardware error of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
67-7	EtherCAT EEPROM loading error of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-8	Communication card initialization error of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-9	EtherCAT master switchover error of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-10	Adapter A sync signal error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		torque 6: Display alarm only			
67-11	Adapter A PDI synchronization signal error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-12	Adapter A Ethernet/IP not programmed with MAC	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-13	Ethernet/IP conflict of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-14	Ethernet/IP LINK loss of adapter A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		speed 5: Operated at limited torque 6: Display alarm only			
67-15	CRC error in data received by the communication card	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
67-16	CRC error in data transmitted by the communication card	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-1	External bus timeout	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-2	Incorrect communication parameter setting	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
68-3	Bus address conflict of adapter B	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-4	PZD1 data check error of adapter B DP communication	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-5	Adapter B Ethernet/IP hardware error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-7	EtherCAT EEPROM loading error of adapter B	0: Coast to stop 1: Emergency stop 2: Stop in normal stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
68-8	Communication card initialization error of adapter B	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-9	EtherCAT master switchover error of adapter B	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-10	Adapter B sync signal exception	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-11	Adapter B PDI sync	0: Coast to stop	0: Coast to stop	Manual reset	page 错误!

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	signal error	1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			未定义书签。
68-12	Adapter B Ethernet/IP not programmed with MAC	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-13	Adapter B Ethernet/IP conflict	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-14	Adapter B Ethernet/IP LINK lost	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		6: Display alarm only			
68-15	CRC error in data received by the communication card	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
68-16	CRC error in data transmitted by the communication card	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-1	External bus timeout	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-2	Incorrect communication parameter setting	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-3	Bus address conflict of adapter C	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-4	PZD1 data CRC error for DP communication of	0: Coast to stop 1: Emergency stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	adapter C	2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
69-7	EtherCAT EEPROM loading error of adapter C	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-8	Communication card initialization error of adapter C	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-9	EtherCAT master switchover error of adapter C	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
69-15	CRC error in data received by the communication card	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
69-16	CRC error in data transmitted by the communication card	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
70-1	Incorrect HE inverter fan phase sequence	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
70-2	HE inverter fan overheated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
71-1	Rectifier braking auto-inspection error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
72-1	Pre-charge timeout	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
72-2	Pre-charge timeout of the basic rectifier module	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
72-4	Rectifier unit not started	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
73-1	Main breaker feedback error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
73-2	Power board undervoltage (HE200-D2)	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
73-3	Pre-charge contactor feedback error (single-drive)	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
73-4	Rectifier bridge error (single-drive)	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
74-1	Braking transistor overcurrent	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
74-2	Braking transistor overtemperature	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
74-3	Braking IGBT-Vce fault	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
74-4	Braking IGBT shoot through	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
74-5	The temperature of the braking transistor temperature is too low or NTC is not connected.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
75-1	Rectifier fan error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
76-1	Module 1 overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
76-2	Module 2 overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
76-3	Module 3 overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
76-4	Module 1 temperature too low or not connected to the NTC	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
76-5	Module 2 temperature too low or not connected to the NTC	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
76-6	Module 3 temperature too low or not connected to the NTC	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
77-1	Reactor overtemperature	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
77-4	Inverter cabinet reactor overtemperature	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
77-7	Internal current-balancing reactor overtemperature	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
78-1	High temperature	6: Display alarm only	6: Display alarm only	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
78-2	Low temperature or NTC not connected	6: Display alarm only	6: Display alarm only	Manual reset	page 错误! 未定义书签。
79-2	High voltage	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
79-3	Low voltage	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
80-1	Rectifier unit 1 offline	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
80-2	2# rectifier unit offline	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
80-3	Extension card setting conflict of rectifier units	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
81-1	Grid voltage too high	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
81-2	Grid voltage too low	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
81-7	R phase loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
81-8	S phase loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
81-9	T phase loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
82-1	DC pre-charge fault	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-1	InoLink address conflict	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-2	InoLink communication offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
83-3	InoLink: receiver offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-5	Optical fiber sync expansion module: node address conflict	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-6	Optical fiber sync expansion module: data interruption of the data reception node A	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-7	Optical fiber sync	0: Coast to stop	0: Coast to stop	Manual reset	page 错误!

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	expansion module: data interruption of the data reception node B	1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			未定义书签。
83-8	Optical fiber sync expansion module: data interruption of the data reception node C	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-9	Optical fiber sync expansion module: module offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
83-10	Data reception error of optical fiber sync expansion module	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		6: Display alarm only			
84-1	Brake cannot be released	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
84-2	Brake cannot be applied	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
84-3	Brake verification failure	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
84-4	Brake verification failure	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		5: Operated at limited torque 6: Display alarm only			
84-5	Automatic start upon brake failure for protection	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
85-1	HCU internal data exchange error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
85-3	State machine out of range	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
85-4	Interrupt generated by error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
85-5	HCU internal data synchronization error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-1	Model code not exist	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-2	Model parameter/Software undervoltage threshold changed	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-3	Model parameter/Software undervoltage threshold not match	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-4	Inconsistent model code	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-6	Mismatch between model and software	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-7	Unknown model code/Software undervoltage threshold	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	limit violated				
88-8	An unknown model code exists.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-9	Calibration coefficient out-of-range	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-11	Software undervoltage threshold inconsistency	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
88-16	Mismatch between model setting and function parameter	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
89-1	24 V power supply voltage excessively low	6: Display alarm only	6: Display alarm only	Automatic/Manual reset	page 错误! 未定义书签。
91-1	Mode setting conflict	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
91-2	Enabled modules and online modules inconsistent	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
91-4	HPCU offline	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
92-2	Phase U loss in parallel mode	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
92-3	Phase V loss in parallel mode	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
92-4	Phase W loss in parallel mode	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
92-5	Bus voltage measurement error in parallel mode	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
93-1	Motor stall	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
93-2	Motor step loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
93-3	Current control error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
93-4	Two- or three-phase loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
93-5	Locked-rotor in SVC speed open-loop control	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
93-6	SVC control error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
93-7	The synchronous motor speed is out of control	0: Coast to stop 1: Emergency stop 2: Stop in normal stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only			
93-8	Overspeed during magnetic pole position auto-tuning	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
99-1	Phase U current unbalanced of paralleled modules	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
99-2	Phase V current unbalanced of paralleled modules	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
99-3	Phase W current unbalanced of paralleled modules	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
100-1	Fault information generated	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
100-2	Sub-code error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
100-3	Main fault code error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
100-4	Data exchange error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
101-1	HINT type not matching HCU	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
101-2	HINT software version not match	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
101-3	STO function mismatch	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
101-4	Mismatch between HINT function and setting	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
102-1	HINT model parameter reading error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
102-2	Mismatch between HINT current sampling function and setting	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
114-1	Input phase loss exists.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。
117-1	Drive pre-overload	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
147-3	STO1 and STO2 input are activated.	6: Display alarm only	6: Display alarm only	Auto reset/Manual reset	page 错误! 未定义书签。
148-2	Motor overtemperature alarm	6: Display alarm only; 7: No action	6: Display alarm only	Manual reset	page 错误! 未定义书签。
156-1	Communication error between bus adapter A and host controller	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
156-2	Communication error between bus adapter B and host controller	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
156-3	Communication error between redundant bus adapter and host computer	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
156-4	Bus adapter A data CRC error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
156-5	Bus adapter B data CRC error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
156-6	Redundant bus adapter data CRC error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
158-1	VI auto-inspection: phase U IGBT lower bridge short-circuited	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-2	VI auto-inspection: phase U IGBT upper bridge short-circuited	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-3	VI auto-inspection: phase V IGBT lower bridge short-circuited	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-4	VI auto-inspection: phase V IGBT upper bridge short-circuited	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-5	VI auto-inspection: phase W IGBT lower bridge short-circuited	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-6	VI auto-inspection: phase W IGBT upper bridge short-circuited	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-7	Output short-circuited to ground	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-8	Bridge arm auto-inspection: IGBT U+V-W- short-circuited during pulse generation	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-9	Bridge arm auto-inspection: Short circuit occurs during IGBT U-V+W+ pulse generation.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-10	Bridge arm auto-inspection: IGBT V+U-W- short circuited during pulse output	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-11	Bridge arm auto-inspection: IGBT V-U+W+ short circuited during pulse output	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
158-12	Bridge arm auto-inspection: IGBT W+U-V- short circuited during pulse output	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-13	Bridge arm auto-inspection: IGBT W-U+V+ short circuited during pulse output	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-14	System phase U loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-15	System phase V loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
158-16	System phase W loss	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-1	Abnormal measurement of the module U phase current sensor	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-2	Abnormal measurement of the module V phase current sensor	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-3	Abnormal measurement of the module phase W current sensor	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-4	Module U phase current sensor inversely installed	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-5	Module V phase current sensor inversely installed	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-6	Module phase W current sensor inversely installed	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-7	Module U phase output phase loss or lower bridge IGBT open circuit	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-8	Phase V is lost or an open circuit occurs on	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
	the lower bridge IGBT.				
159-9	Module phase W output phase loss or lower bridge arm IGBT open circuit	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-10	Module UV phase sensor incorrectly inserted	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-11	Module UW phase sensor is inserted improperly.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-12	Module VW phase sensor is inserted improperly.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-13	Module U phase output phase loss or upper bridge arm IGBT open circuit	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-14	Module V phase output phase loss or upper bridge arm IGBT open circuit	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-15	Module phase W output phase loss or upper bridge arm IGBT open circuit	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
159-16	Auto-inspection interrupted	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-1	Three-phase current unbalance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-2	Excessive phase VW sampling deviation	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-3	UW two-phase sampling deviation too large	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-4	Excessive phase UV sampling deviation	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-5	Module U phase current imbalance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
160-6	Module V phase current imbalance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-7	Module phase W current imbalance	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-8	U phase upper bridge or V phase lower bridge IGBT continuity failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-9	U phase lower bridge or V phase upper bridge IGBT continuity failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-10	V phase upper bridge or phase W lower bridge IGBT continuity failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-11	V phase lower bridge or phase W upper bridge IGBT continuity failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-12	phase W upper bridge or U phase lower bridge IGBT continuity failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-13	phase W lower bridge or U phase upper bridge IGBT continuity failure	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
160-14	Auto-inspection overcurrent	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
170-1	<I/O expansion module 1> DIO output wiring short-circuited	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-2	<I/O expansion module 2> DIO output wiring short-circuited	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-3	<I/O expansion module 3> DIO output wiring short-circuited	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-4	<I/O expansion module 1> AI input disconnected	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-5	<I/O expansion module 2> AI input disconnected	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
170-6	<I/O expansion module 3> AI input disconnected	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-7	<I/O expansion module 1> EEPROM operation error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-8	<I/O expansion module 2> EEPROM operation error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-9	<I/O expansion module 3> EEPROM operation error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-10	<I/O expansion module 1> Calibration coefficient error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-11	<I/O expansion module 2> Calibration coefficient error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
170-12	<I/O expansion module 3> Calibration coefficient error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
172-1	Phase-U module pre-overtemperature	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
172-2	Phase V module pre-overtemperature	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
172-3	Phase-W module pre-overtemperature	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
172-7	Control chamber temperature error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
173-7	(Synchronous voltage measurement module 1) version incompatibility	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	0: Coast to stop	Manual reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
174-13	HSVM wiring phase sequence error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
174-14	Phase-U module pre-overtemperature	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
183-4	InoLink communication: The local address is the node address for data reception.	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-5	Optical fiber sync expansion module: node address conflict	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-6	Optical fiber sync communication module: data reception node A not started	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-7	Optical fiber sync communication module: data reception node B not started	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-8	Optical fiber sync communication module: data reception node C not started	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-9	FO sync communication module: local node address not set	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-10	Optical fiber sync communication module: local address is the node address for data reception	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-11	FO sync communication module not activated	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-12	The data reception node A of the optical synchronous communication module is not within the network.	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
183-13	Optical fiber sync communication module: data reception node B not in the network	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
183-14	Optical fiber sync communication module data reception node C not in the network	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
187-1	Excessive position deviation	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
187-2	Home searching timeout	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
187-3	Positioning completion timeout	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
187-4	Position feedback encoder disconnection	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
188-1	The home is invalid during operation in the positioning control mode.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
188-2	The home is invalid during interrupt positioning.	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		7: No action			
188-3	Proximity switches 1 and 2 active at the same time	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
188-4	Proximity switch 1 signal loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
188-5	Proximity switch 2 signal loss	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
188-6	Proximity switch 1 position deviation too large	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action			
188-7	Proximity switch 2 position deviation too large	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
188-8	Position setpoint overlimit	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
189-1	Positive hardware limit switch 1 activated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		7: No action			
189-2	Negative hardware limit switch 1 activated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
189-3	Positive software limit switch activated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
189-4	Negative software limit switch activated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
189-5	Positive hardware limit switch 2 activated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action			
189-6	Negative hardware limit switch 2 activated	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Running at limited current 4: Running at limited speed 5: Running at limited torque 6: Display alarm only 7: No action	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
190-1	Overload monitored	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
190-2	Underload monitored	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
191-1	Overload monitored	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
191-2	Underload monitored	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
192-1	Variable frequency output contactor feedback	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
192-2	Grid contactor feedback error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
193-1	Variable frequency output contactor feedback	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
		5: Operated at limited torque 6: Display alarm only			
193-2	Grid contactor feedback error	0: Coast to stop 1: Emergency stop 2: Stop in normal stop mode 3: Operated at limited current 4: Operated at limited speed 5: Operated at limited torque 6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
194-1	Grid frequency error	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
194-2	Grid voltage error - Reserved	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
194-3	The grid voltage differs greatly from the motor rated voltage.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
194-4	Grid phase synchronization timeout	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
195-1	Pump model selected repetitively	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
195-2	Communication disconnected during operation				page 错误! 未定义书签。
195-3	Sensor signal lost during operation				page 错误! 未定义书签。
195-4	Number of cylinders (piston) of the pump inconsistent				page 错误! 未定义书签。
196-1	The HSTM-10 module is disconnected (hardware detection).	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
197-1	EX-FLASH1 read/write error	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。

Fault code	Fault name	Fault level	Default fault level	Reset method	Page
198-1	The quick stop function of the HPCU upon IGBT fault does not match the setting.	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
201-1	RO1 lifetime reached	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
201-2	RO2 lifetime reached	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
201-3	RO3 lifetime reached	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
201-4	The lifetime of the cooling fan is reached.	6: Display alarm only	6: Display alarm only	Automatic reset	page 错误! 未定义书签。
215-1	RO1 lifetime reached	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
215-2	RO2 lifetime reached	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
215-3	RO3 lifetime reached	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
215-4	The lifetime of the cooling fan is reached.	0: Coast to stop	0: Coast to stop	Manual reset	page 错误! 未定义书签。
255-1	The custom black box trigger command is activated.	7: No action	7: No action	Automatic reset	page 错误! 未定义书签。
255-2	FVC switches to SVC passively	7: No action	7: No action	Automatic reset	page 错误! 未定义书签。
255-3	Black box triggered forcibly	7: No action	7: No action	Automatic reset	page 错误! 未定义书签。
255-9	Z signal lost	7: No action	7: No action	Automatic reset	page 错误! 未定义书签。

3 Description of fault codes

1-1：Current detection circuit error

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

The detected zero drift of the current is too large after the main circuit is switched on.

Troubleshooting:

Cause	Check method	Solution
1. The zero drift of three-phase output current is too large. Check whether the three-phase output current U6-85/U6-86/U6-87 is non-zero upon stop.	Check whether the three-phase output current values [U6-85]/[U6-86]/[U6-87] are not zero at stop.	1. In the stop state, check the three-phase output UVW current and check whether the current fluctuation exceeds 10% of the rated current. 2. Replace the power module.
The Hall sensor is disconnected. Check whether the three-phase output current values [U6-85]/[U6-86]/[U6-87] are far greater than zero at stop.	Check whether the three-phase output current values [U6-85]/[U6-86]/[U6-87] are not zero at stop.	1. Check the wiring of the three-phase output Hall sensor. 2. Replace the power module.
The zero drift of one or more modules in parallel mode is excessive.	Set A15-02 and A15-03 to enable one unit at a time to see whether the fault occurs again. If the fault occurs again, check whether the three-phase output current values [U6-85]/[U6-86]/[U6-87] are not zero at stop.	Set A15-02 and A15-03 to enable one unit at a time to check whether the fault occurs again. In this way, you can locate the fault of a specific unit module.
Other fault causes lead to the fault.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

1-2：15 V power supply error

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

If the HCU control system detects that the 15 V power supply voltage is lower than 10 V, a fault (1-2) will be reported.

Troubleshooting:

Cause	Check method	Solution
The 24 V control power supply of HCU is abnormal.	Check whether the HCU control circuit voltage is within 24 V±10%.	Replace the HCU control power supply.
The 24 V output is short-circuited.	Check whether the 24 V output (J11 position on the HCU) is short-circuited.	Rectify the 24 V power supply fault or replace the HCU control power supply.
SOP-20-880 15 V output short-circuited	Check whether the 15 V output of SOP-20-880 is short-circuited or replace SOP-20-880 to check whether the fault is rectified.	Replace the cable or SOP-20-880.
Other fault causes lead to the fault.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

1-3：EEPROM error

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

The EEPROM error flag is set to 1.

Troubleshooting:

Cause	Check method	Solution
The EEPROM chip is damaged.	Contact the agent or Inovance for technical support.	1. Replace control board 2. Ask for technical support
The peripheral circuit of EEPROM is abnormal.	Contact the agent or Inovance for technical support.	1. Replace control board 2. Ask for technical support

1-4：Model download failure

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

The fault is triggered when model download failure occurs repeatedly.

Troubleshooting:

Cause	Check method	Solution
The HINT is faulty.	Contact the agent or Inovance for technical support.	Replace the HINT board.
Strong interference exists.	Contact the agent or Inovance for technical support.	Remove the interference source.
Other fault causes lead to the fault.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

1-5：HCU-FPGA software update failure

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

HCU-FPGA or SRAM error flag is set to 1.

Troubleshooting:

Cause	Check method	Solution
The FPGA on HCU does not have software.	Check whether the FPGA software version on the HCU is correct through A2-16 [HCU-FPGA software version].	Contact technical support to download the correct HCU-FPGA software.
Other fault causes lead to the fault.	Contact the agent or Inovance for technical support.	1. Replace the control board. 2. Contact technical support.

1-6：HINT-FPGA software update failure

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

After the HINT-FPGA software is updated, initialization still fails after the preset time elapses.

Troubleshooting:

Cause	Check method	Solution
The FPGA on HINT does not have software.	Check whether the FPGA software version HINT is correct through A2-19 [HINT software version].	Contact technical support to download the correct HCU-FPGA software.
Other fault causes lead to the fault.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

1-8：EEPROM parameter-read timeout

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

Reading parameters from EEPROM times out.

Troubleshooting:

Cause	Check method	Solution
The EEPROM chip is damaged.	Contact the agent or Inovance for technical support.	1. Replace the control board. 2. Contact technical support.
The peripheral circuit of EEPROM is abnormal.	Contact the agent or Inovance for technical support.	1. Replace the control board. 2. Contact technical support.

1-9：EEPROM parameter saving timeout

Default fault level： 0: Coast to stop　　Reset method： Next power-on

Fault level： 0: Coast to stop

Cause:

The attempt to save parameters to EEPROM times out.

Troubleshooting:

Cause	Check method	Solution
The EEPROM chip is damaged.	Contact the agent or Inovance for technical support.	1. Replace the control board. 2. Contact technical support.
The peripheral circuit of EEPROM is abnormal.	Contact the agent or Inovance for technical support.	1. Replace the control board. 2. Contact technical support.

2-1：Hardware overcurrent

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The transient current of a phase exceeds the hardware overcurrent threshold (which is 2.5 x peak rated current) for more than 2 us.

Troubleshooting:

Cause	Check method	Solution
The acceleration/deceleration time is too short.	Check whether the RFG acceleration/deceleration time C7-04 to C7-11/C8-08 to C8-15 is set properly.	Set the acceleration/deceleration time properly.
The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select a drive with proper power rating.
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cables are short-circuited between phases. 3. Check whether the motor cables are in poor contact. If yes, tighten the screws.	Rectify peripheral faults and ensure that short circuit does not occur on the motor, output contactor, or braking resistor.
The control mode is FVC or SVC, and the motor is started without parameter auto-tuning.	Check whether the control mode is FVC or SVC. Check whether the motor parameters in group d are correct and auto-tuned.	Set motor parameters correctly according to the motor nameplate, and start the motor after auto-tuning of the motor parameters is done.
Under fast acceleration/deceleration conditions, the acceleration/deceleration time is too short.	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	Set the acceleration/deceleration time properly.
The manual torque boost or V/f curve is improper.	1. Check whether torque boost parameters (E3-13 to E3-16) are set properly. 2. Check whether the parameter settings in group E3 are proper.	1. Set the torque boost parameters properly. 2. Set the V/f curve correctly.
A rotating motor is being started.	Check whether the motor speed is not zero upon start.	Set E1-00 to "Flying start" or wait until the motor stops before start.
Abnormal encoder feedback signal in FVC mode	Check whether the encoder feedback signal is abnormal with an oscilloscope or whether the waveform (U9-12) is abnormal with a continuous oscilloscope.	Check whether external interference source exists around the encoder. Replace the encoder or encoder output cable.
The motor cable is too long.	Check the motor cable length.	Install an output reactor or reduce the length of the motor cable.
The DC bus voltage is low.	Check whether A0-11 [DC bus voltage] is lower than the undervoltage threshold displayed in A4-18.	Adjust the DC bus voltage to a value within the normal range.
Motor parameters are set	Check that motor parameters are set	Set the motor parameters correctly.

improperly.	correctly.	
The Hall circuit is abnormal.	1. Check the wiring of the Hall device. 2. Check the Hall power supply. 3. Check whether the Hall is abnormal.	1. Replace the wiring of the Hall device. 2. Replace the Hall power supply. 3. Replace the Hall sensor.
Peripheral devices are faulty.	Check whether the current generated upon fault reaches the overcurrent threshold.	View the historical fault records. If the current upon a fault does not reach the overcurrent threshold, check the interference source.
Current sampling DIP switch error occurs after power board replacement.	Check whether the current sampling DIP switch is correct.	1. Refer to the DIP switch of the original power board. 2. Contact the technical support.
Other causes: 1. Connect the output to the capacitive load 2. Connect the output to the transformer or filter.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

2-2：Software overcurrent

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The maximum value of U/V/W three-phase current exceeds the overcurrent threshold defined by A4-20.

Troubleshooting:

Cause	Check method	Solution
A4-20 (Software overcurrent threshold) is set to an excessively low value.	Check whether the software overcurrent threshold (A4-20) is set properly.	Set A4-20 properly (the setpoint 100% is recommended to disable software overcurrent detection).
Grounding fault or short circuit exists in the output circuit of the drive.	Rectify peripheral faults and ensure that no short circuit occurs on the motor or output contactor.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The control mode is FVC or SVC, and the motor is started without parameter auto-tuning.	Check whether the control mode is FVC or SVC. Check whether the motor parameters in group d are correct and auto-tuned.	Set motor parameters correctly according to the motor nameplate, and start the motor after auto-tuning of the motor parameters is done.
Under fast acceleration/deceleration conditions, the acceleration/deceleration time is	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	Set the acceleration/deceleration time properly.

too short.		
The manual torque boost or V/f curve is improper.	1. Check whether torque boost parameters (E3-13 to E3-16) are set properly. 2. Check whether the parameter settings in group E3 are proper.	1. Set the torque boost parameters properly. 2. Set the V/f curve correctly.
A rotating motor is being started.	Check whether the motor speed is not zero upon start.	Enable flying start or start the motor after it stops.
Abnormal encoder feedback signal in FVC mode	Check whether the encoder feedback signal is abnormal with an oscilloscope or whether the waveform (U9-12) is abnormal with a continuous oscilloscope.	Check whether the encoder feedback signal is normal. Eliminate external interference sources or replace the encoder cable.
The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select a drive with proper power rating.
The DC bus voltage is low.	Check whether A0-11 [DC bus voltage] is normal.	Adjust the DC bus voltage to a value within the normal range.
Motor parameters are set improperly.	Check that motor parameters are set correctly.	Set the motor parameters correctly.
Peripheral devices are faulty.	1. Check the fault history. If the current upon the fault is below the overcurrent threshold, check for interference sources. 2. If no external interference source exists, the driver board or the HALL device may be faulty.	1. Check the fault log. If the current upon fault is far below the overcurrent threshold, check for interference sources. 2. If no external interference source exists, the driver board or the HALL device may be faulty. In this case, replace the driver board or Hall device.
Other fault causes lead to the fault.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

2-6：Phase-U hardware overcurrent

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The transient current of phase U exceeds the hardware overcurrent threshold (which is 2.5 x peak rated current) for more than 2 us.

Troubleshooting:

Cause	Check method	Solution

The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select a drive with proper power rating.
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The control mode is FVC or SVC, and the motor is started without parameter auto-tuning.	Check whether the control mode is FVC or SVC. Check whether the motor parameters in group d are correct and auto-tuned.	Set motor parameters correctly according to the motor nameplate, and start the motor after auto-tuning of the motor parameters is done.
Under fast acceleration/deceleration conditions, the acceleration/deceleration time is too short.	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	Set the acceleration/deceleration time properly.
The manual torque boost or V/f curve is improper.	1. Check whether torque boost parameters (E3-13 to E3-16) are set properly. 2. Check whether the parameter settings in group E3 are proper.	1. Set the torque boost parameters properly. 2. Set the V/f curve correctly.
A rotating motor is being started.	Check whether the motor speed is not zero upon start.	Set E1-00 to "Flying start" or wait until the motor stops before start.
Abnormal encoder feedback signal in FVC mode	Check whether the encoder feedback signal is abnormal with an oscilloscope or whether the waveform (U9-12) is abnormal with a continuous oscilloscope.	Check whether the encoder feedback signal is normal. Eliminate external interference sources or replace the encoder cable.
The motor cable is too long.	Check the motor cable length.	Install an output reactor or reduce the length of the motor cable.
The DC bus voltage is low.	Check whether A0-11 [DC bus voltage] is normal.	Adjust the DC bus voltage to a value within the normal range.
Motor parameters are set improperly.	Check that motor parameters are set correctly.	Set the motor parameters correctly.
The Hall circuit is abnormal.	1. Check the wiring of the Hall device. 2. Check the Hall power supply. 3. Check whether the Hall is abnormal.	1. Replace the wiring of the Hall device. 2. Replace the Hall power supply. 3. Replace the Hall sensor.
Peripheral devices are faulty.	1. Check the fault log. If the current upon fault is far below the overcurrent threshold, check for interference source. 2. If no external interference	View the historical fault records. If the current upon a fault does not reach the overcurrent threshold, check the

	source exists, the driver board or the HALL device may be faulty.	interference source.
Current sampling DIP switch error occurs after power board replacement.	Check whether the current sampling DIP switch is correct.	1. Refer to the DIP switch of the original power board. 2. Contact the technical support.
Other causes: 1. Connect the output to the capacitive load 2. Connect the output to the transformer or filter.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

2-7：Phase-V hardware overcurrent

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The transient current of phase V exceeds the hardware overcurrent threshold (which is 2.5 x peak rated current) for more than 2 us.

Troubleshooting:

Cause	Check method	Solution
The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select a drive with proper power rating.
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The control mode is FVC or SVC, and the motor is started without parameter auto-tuning.	Check whether the control mode is FVC or SVC. Check whether the motor parameters in group d are correct and auto-tuned.	Set motor parameters correctly according to the motor nameplate, and start the motor after auto-tuning of the motor parameters is done.
Under fast acceleration/deceleration conditions, the acceleration/deceleration time is too short.	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	Set the acceleration/deceleration time properly.
The manual torque boost or V/f curve is improper.	1. Check whether torque boost parameters (E3-13 to E3-16) are set properly.	1. Set the torque boost parameters properly. 2. Set the V/f curve correctly.

	2. Check whether the parameter settings in group E3 are proper.	
A rotating motor is being started.	Check whether the motor speed is not zero upon start.	Set E1-00 to "Flying start" or wait until the motor stops before start.
Abnormal encoder feedback signal in FVC mode	Check whether the encoder feedback signal is abnormal with an oscilloscope or whether the waveform (U9-12) is abnormal with a continuous oscilloscope.	Check whether the encoder feedback signal is normal. Eliminate external interference sources or replace the encoder cable.
The motor cable is too long.	Check the motor cable length.	Install an output reactor or reduce the length of the motor cable.
The DC bus voltage is low.	Check whether A0-11 [DC bus voltage] is normal.	Adjust the DC bus voltage to a value within the normal range.
Motor parameters are set improperly.	Check that motor parameters are set correctly.	Set the motor parameters correctly.
The Hall circuit is abnormal.	1. Check the wiring of the Hall device. 2. Check the Hall power supply. 3. Check whether the Hall is abnormal.	1. Replace the wiring of the Hall device. 2. Replace the Hall power supply. 3. Replace the Hall sensor.
Peripheral devices are faulty.	1. Check the fault log. If the current upon fault is far below the overcurrent threshold, check for interference source. 2. If no external interference source exists, the driver board or the HALL device may be faulty.	View the historical fault records. If the current upon a fault does not reach the overcurrent threshold, check the interference source.
Current sampling DIP switch error occurs after power board replacement.	Check whether the current sampling DIP switch is correct.	1. Refer to the DIP switch of the power board before replacement. 2. Contact the agent or Inovance for technical support.
Other causes: 1. Connect the output to the capacitive load 2. Connect the output to the transformer or filter.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

2-8：Phase-W hardware overcurrent

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The transient current of phase W exceeds the hardware overcurrent threshold (which is 2.5 x peak rated

current) for more than 2 us.

Troubleshooting:

Cause	Check method	Solution
The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select a drive with proper power rating.
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The control mode is FVC or SVC, and the motor is started without parameter auto-tuning.	Check whether the control mode is FVC or SVC. Check whether the motor parameters in group d are correct and auto-tuned.	Set motor parameters correctly according to the motor nameplate, and start the motor after auto-tuning of the motor parameters is done.
Under fast acceleration/deceleration conditions, the acceleration/deceleration time is too short.	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	Set the acceleration/deceleration time properly.
The manual torque boost or V/f curve is improper.	1. Check whether torque boost parameters (E3-13 to E3-16) are set properly. 2. Check whether the parameter settings in group E3 are proper.	1. Set the torque boost parameters properly. 2. Set the V/f curve correctly.
A rotating motor is being started.	Check whether the motor speed is not zero upon start.	Set E1-00 to "Flying start" or wait until the motor stops before start.
Abnormal encoder feedback signal in FVC mode	Check whether the encoder feedback signal is abnormal with an oscilloscope or whether the waveform (U9-12) is abnormal with a continuous oscilloscope.	Check whether the encoder feedback signal is normal, rectify external interference source or replace the encoder cable.
The motor cable is too long.	Check the motor cable length.	Install an output reactor or reduce the length of the motor cable.
The DC bus voltage is low.	Check whether A0-11 [DC bus voltage] is normal.	Adjust the DC bus voltage to a value within the normal range.
Motor parameters are set improperly.	Check that motor parameters are set correctly.	Set the motor parameters correctly.
The Hall circuit is abnormal.	1. Check the wiring of the Hall device. 2. Check the Hall power supply. 3. Check whether the Hall is abnormal.	1. Change the wiring of the Hall device. 2. Replace the Hall power supply. 3. Replace the faulty Hall sensor.

Peripheral devices are faulty.	1. Check the fault log. If the current upon fault is far below the overcurrent threshold, check for interference source. 2. If no external interference source exists, the driver board or the HALL device may be faulty.	View the historical fault records. If the current upon a fault does not reach the overcurrent threshold, check the interference source.
Current sampling DIP switch error occurs after power board replacement.	Check whether the current sampling DIP switch is correct.	1. Refer to the DIP switch of the power board before replacement. 2. Contact the agent or Inovance for technical support.
Other causes: 1. Connect the output to the capacitive load 2. Connect the output to the transformer or filter.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

2-10：Instantaneous overcurrent of synchronous motor

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The instantaneous current of the motor exceeds the demagnetization protection threshold.

Troubleshooting:

Cause	Check method	Solution
1. The load is too heavy. Reduce the output power.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.
2. Check whether the threshold for demagnetization protection is set properly.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

5-1：DC overvoltage

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The DC bus voltage exceeds the preset DC overvoltage threshold (800 V for 400 V models and 1200 V for 690 V models).

Troubleshooting:

Cause	Check method	Solution
The DC bus voltage is high.	Check whether A0-11 [DC bus voltage] is above the normal range.	1. Increase the DC bus voltage to a value within the normal range. 2. Enable the Vdc_max overvoltage suppression algorithm, adjust parameters in group E9 in vector control, and adjust parameters in group E3 in V/f control. 3. Optimize Vdc_max overvoltage suppression parameters, adjust parameters in group E9 in vector control, and adjust parameters in group E3 in V/f control. 4. Increase the acceleration/deceleration time.
The DC bus overvoltage threshold is set improperly.	Check whether A4-15 is set properly.	Check whether A4-15 is set properly.
The starting voltage of the braking unit is too high.	Check whether A5-12 [Brake ON threshold (single drive)] is set properly.	Reduce the starting voltage of the braking unit.
Under power generation conditions, no braking unit is installed or the braking resistor model is inappropriate.	Check whether the braking unit is installed and whether the braking resistor is suitable.	Install a braking unit or select a proper braking resistor.
The drive voltage is improper.	Check whether the voltage class of the drive is proper.	Select a drive model with the proper voltage class.
The drive model is incorrect.	Check whether the drive model is improper.	Contact the agent or Inovance for technical support.
The overvoltage suppression parameter is set improperly.	1. In the V/f control mode, check whether overvoltage suppression (E3-30) is enabled and whether E3-31 to E3-35 parameters are set properly. 2. In the vector control mode, check whether E9-01 is enabled and whether E9-02 is set to an excessively high value.	1. In V/f control mode, check whether overvoltage suppression (E3-30) is enabled. If yes, set E3-31 to E3-35 properly. 2. In vector control mode, check whether E9-01 is enabled. If yes, set E9-02 properly.
The correction factor of the DC bus voltage is set improperly.	Check that the DC voltage sampling gain (A3-09) is set properly.	Set the DC voltage sampling gain A3-09 properly.
In the vector control mode, speed loop parameters are set improperly.	Check whether the overshoot of the motor actual speed during acceleration is excessively high, which causes overvoltage during recovery from overshoot.	Weak speed loop parameters cause power generation during recovery from speed overshoot. Setting speed loop parameters to excessively high points or excessive speed feedback

		fluctuation may lead to high frequency oscillation and overvoltage during high-speed operation. In this case, set speed loop parameters properly.
The motor is still rotating. Starting a rotating motor can lead to generating state of the motor, resulting in bus overvoltage.	Check whether the motor speed is not zero upon start.	Set E1-00 to "Flying start" or wait until the motor stops before start.
The output is short-circuited to ground.	Ensure that the U/V/W output is short-circuited to ground.	If the output terminal is short-circuited to ground, overvoltage may occur during operation. Check whether the insulation on the output side is normal with a egger.
Check whether the model parameters are modified. Check A2-01/A2-02/A2-03.	Check whether the model parameters are modified. Check A2-01/A2-02/A2-03.	Change the model parameters correctly.
Other causes lead to the fault.	Contact the agent or Inovance for technical support.	Contact the agent or Inovance for technical support.

5-3：Excessively high bus voltage during simulation

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The DC bus voltage is higher than 48 V during simulation.

Troubleshooting:

Cause	Check method	Solution
Simulation applies when the bus voltage is higher than 48 V.	Check whether the bus voltage (A0-11) is higher than 48 V and check whether A8-22 (Simulation mode) is started.	Switch off the bus voltage before entering the simulation mode.

9-1：DC undervoltage

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The DC bus voltage is lower than the preset DC undervoltage threshold defined by A4-18 after the device is switched on (ON).

Troubleshooting:

Cause	Check method	Solution
The input voltage is abnormal.	1. Check whether the input voltage is low. 2. Check whether input phase loss or open circuit occurs.	1. Check whether the input voltage is low. 2. Check whether input phase loss or open circuit occurs. 3. If the load and process allow, enable Vdc_Min undervoltage suppression.
The DC bus undervoltage threshold is set improperly.	Check whether the preset DC bus undervoltage threshold (A4-18) is excessively high.	1. Check whether the preset DC bus undervoltage threshold (A4-18) is excessively high. 2. Adjust the effective value of the undervoltage threshold through A4-16 and A4-17.
The voltage class of the drive is incorrect. Check the rated voltage through A2-02.	Check A2-02 [Module rated voltage].	Select a drive model with the proper voltage class.
The undervoltage suppression has been set but parameters are set improperly.	1. Check whether E9-03 is enabled in vector control. Check whether E9-04 to E9-06 are set improperly. 2. Check whether E3-36 is enabled in V/f control. Adjust E3-37 to E3-40 to check whether the fault has been reset.	1. Check whether E9-03 is enabled in vector control. Check whether E9-04 to E9-06 are set properly. 2. Check whether E3-36 is enabled in V/f control. Adjust E3-37 to E3-40 to check whether the fault has been reset.
The displayed DC bus voltage is abnormal.	1. Check the DC voltage sampling gain (A3-09). 2. Check the hardware sampling circuit is abnormal. 3. Contact technical support.	1. Set the DC voltage sampling gain (A3-09) properly. 2. Rectify hardware sampling circuit fault. 3. Contact technical support.
The pre-charge resistor is not bypassed properly.	Check whether the pre-charge resistor is bypassed.	Check whether the pre-charge resistor is bypassed.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

9-2：Low voltage fault

Default fault level： 0: Coast to stop

Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The bus voltage is low when Vdc_Min control applies. When the operating frequency is lower than the set frequency threshold, a fault will be reported.

Troubleshooting:

Cause	Check method	Solution
The input voltage is too low for a long time.	Check whether the input voltage is normal.	Ensure that the input voltage is correct.
The load inertia is too small to maintain the DC bus voltage.	Contact Inovance for technical support.	-
The set frequency threshold is too high.	1. In vector control, check whether the frequency threshold (E9-04) is set properly. 2. In V/f control, check whether the frequency threshold (E3-37) is set properly.	1. Set the frequency threshold (E9-04) properly in vector control. 2. Set the frequency threshold (E3-37) properly in V/f control.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

10-1：Drive overload

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The heat accumulated by the device is triggered when the load rate of the device reaches 100%.

Troubleshooting:

Cause	Check method	Solution
The load is too heavy.	Check whether the load is too heavy.	1. Reduce the load. 2. Select a drive with a proper power rating.
Parameter auto-tuning is not performed in vector control.	Set the motor parameters correctly, perform parameter auto-tuning before operation, and then check whether the fault is reset.	Set motor parameters correctly and perform parameter auto-tuning before operation.
The torque boost parameter is set to an excessively high value in V/f control.	Check whether the torque boost parameters E3-13 to E3-16 are set properly during V/f control.	1. E3-14 and E3-15 are set to excessively high values for manual torque boost. 2. Perform static auto-tuning after automatic torque boost.
The motor is stalled.	Check the motor and machinery condition.	Check the motor and machinery condition.
The drive operates with high load at low speed for a long term.	Check whether the drive operates with high load at low speed for a long term.	The derating coefficient must be taken into account when the drive runs at low

		frequency for a long time. Increase the power of the drive properly.
Derating occurs due to excessively high carrier frequency.	Check whether A4-02 is set properly. Modify the A4-02 parameter to check whether the fault is reset.	Reduce the carrier frequency by setting A4-02.
Speed tracking fails.	Check whether the motor is in flying start state and whether U1-17 [Flying start] is enabled. Increase E7-02 [Speed tracking filter cutoff frequency] to check whether the fault is reset.	The speed tracked is inconsistent with the actual motor speed. After operation, the drive is overloaded due to excessively high current. If the high speed is tracked, increase the value of E7-02 (Speed tracking filter cutoff frequency).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

10-2：Pulse-by-pulse current limit fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The fault is triggered when the current reaches 2 x peak rated current.

Troubleshooting:

Cause	Check method	Solution
The acceleration/deceleration time is too short.	Check whether the acceleration/deceleration time is set correctly.	Set the acceleration/deceleration time properly.
The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select a drive with proper power rating.
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The control mode is FVC or SVC, and the motor is started without parameter auto-tuning.	Check whether the control mode is FVC or SVC. Check whether the motor parameters in group d are correct and auto-tuned.	Set motor parameters correctly according to the motor nameplate, and start the motor after auto-tuning of the motor parameters is done.

Under fast acceleration/deceleration conditions, the acceleration/deceleration time is too short.	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	Set the acceleration/deceleration time properly.
The manual torque boost or V/f curve is improper.	1. Check whether torque boost parameters (E3-13 to E3-16) are set properly. 2. Check whether the parameter settings in group E3 are proper.	1. Set the torque boost parameters properly. 2. Set the V/f curve correctly.
A rotating motor is being started.	Check whether the motor speed is not zero upon start.	Set E1-00 to "Flying start" or wait until the motor stops before start.
Abnormal encoder feedback signal in FVC mode	Check whether the encoder feedback signal is abnormal with an oscilloscope or whether the waveform (U9-12) is abnormal with a continuous oscilloscope.	Check whether the encoder feedback signal is normal, rectify external interference source or replace the encoder cable.
The motor cable is too long.	Check the motor cable length.	Install an output reactor or reduce the length of the motor cable.
The DC bus voltage is low.	Check whether A0-11 [DC bus voltage] is normal.	Adjust the DC bus voltage to a value within the normal range.
Motor parameters are set improperly.	Check that motor parameters are set correctly.	Set the motor parameters correctly.
The Hall circuit is abnormal.	1. Check the wiring of the Hall device. 2. Check the Hall power supply. 3. Check whether the Hall is abnormal.	1. Replace the wiring of the Hall device. 2. Replace the Hall power supply. 3. Replace the Hall sensor.
Peripheral devices are faulty.	1. Check the fault log. If the current upon fault is far below the overcurrent threshold, check for interference source. 2. If no external interference source exists, the driver board or the HALL device may be faulty.	View the historical fault records. If the current upon a fault does not reach the overcurrent threshold, check the interference source.
Current sampling DIP switch error occurs after power board replacement.	Check whether the current sampling DIP switch is correct.	1. Refer to the DIP switch of the original power board. 2. Contact the technical support.
Other causes: 1. Connect the output to the capacitive load 2. Connect the output to the transformer or filter.	Contact Inovance for technical support.	Contact Inovance for technical support.

11-1：Motor overload

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The output current remains above the rated motor current for a certain time period.

Troubleshooting:

Cause	Check method	Solution
The load is too heavy.	1. Reduce the load or replace the motor with a higher power rating. 2. Check the motor and mechanical conditions.	1. Reduce the load or replace the motor with a higher power. 2. Eliminate excessively heavy external mechanical load.
Parameter auto-tuning is not performed in vector control.	Set the motor parameters correctly, perform parameter auto-tuning before operation, and then check whether the fault is reset.	Set motor parameters correctly and perform parameter auto-tuning before operation.
The torque boost parameter is set to an excessively high value in V/f control.	Check whether the torque boost parameters E3-13 to E3-16 are set properly during V/f control.	1. E3-14 and E3-15 are set to excessively high values for manual torque boost. 2. Perform static auto-tuning after automatic torque boost.
The motor overload protection gain is set improperly.	Ensure that E8-01 is set to an excessively low value.	Ensure that E8-01 is set to an excessively low value.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

13-1：Phase U loss

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The phase U current is significantly lower than the current of the other two phases in multiple current cycles during operation.

Troubleshooting:

Cause	Check method	Solution
The motor phase U cable is disconnected or connected improperly.	Check whether the motor phase U cable is connected properly.	Replace the motor UVW wiring.
The output contactor is not closed or is abnormal.	Ensure that the output contactor is normally closed.	Ensure that the output contactor is closed properly.
The motor three-phase winding is abnormal.	Contact Inovance for technical support.	Replace the motor.
The hardware current detected is abnormal.	Check the hardware current detection circuit.	1. Rectify the hardware current detection circuit fault. 2. Replace the power board or Hall device.
The driver board is abnormal.	Check that the drive circuit cable is connected normally.	1. Ensure that the drive circuit cable is connected properly. 2. Replace the power board.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

13-2: Phase V loss

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The phase V current is significantly lower than the current of the other two phases in multiple current cycles during operation.

Troubleshooting:

Cause	Check method	Solution
The motor V cable is disconnected or connected improperly.	Check whether motor phase V is connected properly.	Connect motor U/V/W cables properly.
The output contactor is not closed or is abnormal.	Ensure that the output contactor is normally closed.	Ensure that the output contactor is closed properly.
The motor three-phase winding is abnormal.	Contact Inovance for technical support.	Replace the motor.
The hardware current detected is abnormal.	Check the hardware current detection circuit.	1. Rectify the hardware current detection circuit fault. 2. Replace the power board or Hall device.
The driver board is abnormal.	Check that the drive circuit cable is connected normally.	1. Ensure that the drive circuit cable is connected properly. 2. Replace the power board.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

13-3: Phase W loss

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop

2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The phase W current is significantly smaller than the current of the other two phases in multiple current cycles during operation.

Troubleshooting:

Cause	Check method	Solution
The motor phase W cable is disconnected or connected properly.	Check whether the motor phase W is wired properly.	Connect motor U/V/W cables properly.
The output contactor is not closed or is abnormal.	Ensure that the output contactor is normally closed.	Ensure that the output contactor is closed properly.
The motor three-phase winding is abnormal.	Contact Inovance for technical support.	Replace the motor.
The hardware current detected is abnormal.	Check the hardware current detection circuit.	1. Rectify the hardware current detection circuit fault. 2. Replace the power board or Hall device.
The driver board is abnormal.	Check that the drive circuit cable is connected normally.	1. Ensure that the drive circuit cable is connected properly. 2. Replace the power board.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

13-4：Two- or three-phase loss

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

During operation, the output current is continuously lower than 1/4 of the no-load current. This fault only occurs during vector control of asynchronous motors.

Troubleshooting:

Cause	Check method	Solution
The motor cables are disconnected or connected improperly.	Check whether the motor phase U/V/W cables are connected properly.	Connect motor U/V/W cables properly.
The output contactor is not closed or is abnormal.	Ensure that the output contactor is normally closed.	Ensure that the output contactor is closed properly.
The motor three-phase winding is abnormal.	Contact Inovance for technical support.	Replace the motor.
The driver board is faulty.	Check that the drive circuit cable is connected normally.	1. Ensure that the drive circuit cable is connected properly. 2. Replace the power board.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

14-1：Phase-U module overtemperature

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The phase U detection temperature (U7-09) of the module is higher than the overtemperature threshold (overtemperature threshold is model-related).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.

The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is damaged.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

14-2：Phase-V module overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected phase V temperature (U7-10) is higher than the overtemperature threshold (the overtemperature threshold is model-related).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is damaged.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

14-3：Phase-W module overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected phase W temperature (U7-11) is higher than the overtemperature threshold (overtemperature threshold is model-related).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is damaged.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

14-4：Temperature switch fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

For HE200 or HE300 series inverter models, when HINT detects that the temperature switch signal is disconnected, F14-4 (Module overtemperature fault) is reported.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops or the speed is low. 2. The fan rotates reversely.	Check whether the fan is damaged.	1. Replace the fan. 2. Replace the power supply board of the fan.
The module temperature switch	Contact Inovance for technical support.	1. Check whether the wiring circuit of

is abnormal.		the temperature switch is disconnected. 2. Check whether the temperature switch is abnormal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

14-5：Rectifier module overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

For HE200 or HE300 series inverters, the detected rectifier temperature (U5-09) is higher than the overtemperature threshold A4-35 (overtemperature threshold is model-related).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is damaged.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

14-7：Control chamber overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The control chamber temperature (U5-08) is higher than the overtemperature threshold defined by A4-34 (overtemperature threshold is model-related).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is damaged.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

15-1：External fault 1

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The external fault 1 (15-1) is triggered when H0-00 is set to 1.

Troubleshooting:

Cause	Check method	Solution
The setting source of H0-00 is active.	Check whether H0-00 is set to 1 (Active).	Check whether the setting source is active.
H0-00 is set improperly.	Check whether H0-00 is set improperly.	1. Set H0-00 to 0. 2. Set H0-00 correctly.

15-2：External fault 2

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

External fault 2 (15-2) is triggered when H0-01 is set to 1.

Troubleshooting:

Cause	Check method	Solution
The setting source of H0-01 is active.	The setting source of H0-01 is active.	Check whether the setting source is active.
H0-01 is set improperly.	Check whether H0-01 is set improperly.	1. Set H0-01 to 0. 2. Set H0-01 correctly.

15-3：Motor overtemperature

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque

6: Display alarm only

Cause:

The motor temperature exceeds the protection setpoint defined by E8-23.

Troubleshooting:

Cause	Check method	Solution
The cooling fan of the motor is stalled or abnormal.	Check whether the cooling fan and air outlet of the motor are abnormal.	Rectify exceptions of the cooling fan and air outlet of the motor.
The motor is overloaded.	Check whether the motor is in overload state for a long time.	Prevent the motor from being overloaded for a long time.
The temperature detection circuit is abnormal.	Check the wiring of the temperature detection circuit.	Ensure that the temperature detection circuit is connected properly.
The motor temperature detection mode [E8-22] is set incorrectly.	Check whether the motor temperature detection mode [E8-22] is set incorrectly.	Re-check motor temperature detection mode: 1. Check the signal source: PG card or AI terminal. 2. Check whether the sensor type is selected correctly.
The motor overtemperature protection threshold [E8-23] is set improperly.	Check whether the motor overtemperature protection threshold [E8-23] is set improperly.	Check whether the motor overtemperature protection threshold is set to excessively low value.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-1：Static auto-tuning failure of UV/UW sampling gain scaling

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
The motor is not connected.	1. Check whether the motor is connected properly. 2. Check whether the output contactor is connected properly.	1. Ensure the motor is connected properly. 2. Ensure the output contactor is connected properly.
Output phase loss occurs.	1. Check whether the motor is connected properly. 2. Check whether the output contactor is connected properly. 3. Refer to the fault	1. Ensure that the motor is connected properly. 2. Ensure that the output contactor is connected properly. 3. Refer to the fault description of F13-1.

	description of F13-1.	
Motor basic parameters are set incorrectly.	Check that motor parameters are set correctly.	Set motor basic parameters correctly according to the motor nameplate.
The power rating of the drive is low.	Check whether the rated power of the module (A2-01) is low.	Select the drive with a proper power rating.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. Check whether the module is normal by setting b5-01 to 1. 2. Contact Inovance for technical support.

19-2：Static auto-tuning failure of stator resistance and transistor voltage drop

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
The auto-tuning process is interrupted.	Check whether the start/stop control word is normal during motor auto-tuning.	Ensure that the start/stop control word is normal during motor auto-tuning.
A fault occurs during auto-tuning.	Check whether other faults are reported during auto-tuning.	Rectify the fault reported by the controller.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-3：Static auto-tuning failure of rotor resistance and leakage inductance

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution

The auto-tuning process is interrupted.	Check whether the start/stop control word is normal during motor auto-tuning.	Ensure that the start/stop control word is normal during motor auto-tuning.
A fault occurs during auto-tuning.	Check whether other faults are reported during auto-tuning.	Rectify the fault reported by the controller.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-4：No-load auto-tuning failure of no-load current and mutual inductance

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
Set the motor speed upper limit to a value lower than 75%.	Check whether the motor speed upper limit set by d0-07, E2-04, E2-06, and b5-19 is lower than 75%.	Modify the motor speed upper limit to a value higher than 75%.
Deviation of the auto-tuned values is excessive.	Contact Inovance for technical support.	1. Check whether the motor nameplate parameters are correct. 2. Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-6：Failure of motor auto-tuning and load inertia auto-tuning

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
Set the motor speed upper limit to a value lower than 75%.	Check whether the motor speed upper limit set by d0-07, E2-04, E2-06, and b5-	Modify the motor speed upper limit to a value higher than 75%.

	10 is lower than 75%.	
The auto-tuning time is too long.	1. Check whether the torque limit and speed loop are enabled, whether forward/reverse run is allowed, and whether the integral is frozen. 2. Check whether other parameters in group E4 are set properly.	1. Set parameters in group E4 according to the parameter guide. 2. Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-7：Dead zone auto-tuning failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
Motor basic parameters are set incorrectly.	Check whether there is any deviation between the motor parameters in group d0 and the nameplate parameters.	Set the motor parameters according to the motor nameplate and perform motor parameter auto-tuning.
The bus voltage fluctuates.	Check whether A0-11 (DC bus voltage) fluctuates greatly. The difference between the maximum voltage and the minimum voltage is 5% to 10% of the rated value.	Contact Inovance for technical support.
Motor rotation	Check whether the motor rotation problem exists during motor dead zone auto-tuning.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-8：Rotor resistance auto-tuning result out-of-range

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
The rated speed of the asynchronous motor is set incorrectly, and the parameter setting on the motor nameplate is inconsistent with the real value.	Check whether there is any deviation between the motor parameters in group d0 and the nameplate parameters.	Set the motor parameters according to the motor nameplate and perform motor parameter auto-tuning.
The difference between the power of the AC drive module and the motor power is too large.	Check whether the difference between A2-01 and d0-01 is too large.	Select the module properly.
The motor may rotate during static auto-tuning.	Check whether the motor rotation problem exists during static motor auto-tuning.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-9：Asynchronous motor with-load auto-tuning failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
The torque limit is not released.	Check whether the values of E2-08 to E2-11 are excessively low.	Release the torque limit to a proper value.
The speed reference is excessively low.	Check whether b5-25 is set to excessively low values.	Improve the speed reference for with-load auto-tuning. It is recommended to use the default value.
Motor basic parameters are set incorrectly.	Check whether there is any deviation between the motor parameters in group d0 and the nameplate parameters.	Set motor basic parameters correctly according to the motor nameplate.

Static auto-tuning [b5-00 =1] or complete static auto-tuning [b5-00=3] is not performed.	Check whether static auto-tuning or complete static auto-tuning is performed.	Perform static auto-tuning before performing with-load auto-tuning.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-10：Synchronous motor pole auto-tuning failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning times out.

Troubleshooting:

Cause	Check method	Solution
The motor has no magnetic saturation effect, and auto-tuning cannot be completed.	Contact Inovance for technical support.	1. Check whether motor parameters are set properly. 2. Check whether the motor model is correct.
Motor basic parameters are set incorrectly.	Check whether there is any deviation between the motor parameters in group d0 and the nameplate parameters.	Set motor basic parameters correctly according to the motor nameplate.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

19-11：Synchronous motor pole auto-tuning current search failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning timeout occurs and the current cannot reach the set value.

Troubleshooting:

Cause	Check method	Solution
Check the motor for phase loss or open circuit.	Check the motor wiring.	Ensure that the motor wiring is not disconnected.

19-12：Failure to obtain the Z signal during synchronous motor auto-tuning

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The Z signal is not obtained during auto-tuning for a long time.

Troubleshooting:

Cause	Check method	Solution
The connection of the Z signal is abnormal.	Check the wiring of the encoder Z signal.	Ensure that the Z signal is connected properly.

19-13：Synchronous motor with-load auto-tuning failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning times out.

Troubleshooting:

Cause	Check method	Solution
The encoder phase sequence is connected reversely.	Check the encoder cable connection.	Ensure that the encoder cable is connected properly.

19-14：High-frequency injection auto-tuning fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning times out.

Troubleshooting:

Cause	Check method	Solution
Motor saturation characteristics are not obvious.	Contact Inovance for technical support.	Set E11-57 (Overload function) to 0.

19-15：Auto-tuning failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuning times out.

Troubleshooting:

Cause	Check method	Solution
Auto-tuning is not completed.	Perform auto-tuning again.	Perform auto-tuning again. If auto-tuning fails, contact technical support.

19-16：Auto-tuning interrupted

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The operation command is lost during auto-tuning.

Troubleshooting:

Cause	Check method	Solution
The auto-tuning process is interrupted.	Check whether the start/stop control word is normal during motor auto-tuning.	Ensure that the start/stop control word is normal during motor auto-tuning.
A fault occurs during auto-tuning.	Check whether other faults are reported during auto-tuning.	Troubleshoot issues based on the reported fault.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

20-1：Encoder cable disconnection (hardware detection)

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The encoder signal voltage does not correspond to the encoder type.

Troubleshooting:

Cause	Check method	Solution
The encoder is damaged.	Check and ensure that the encoder is intact.	Replace the encoder.
The encoder power supply is abnormal.	Check whether the encoder power supply cable is connected properly. The encoder power supply voltage is consistent with the PG card power supply voltage.	Ensure that the encoder power supply is connected properly and that the encoder power supply voltage is consistent with the PG card power supply voltage.
The encoder wiring is incorrect.	1. Check whether the encoder AB wiring is incorrect. 2. Check whether the encoder wiring is reliable.	Ensure that the encoder cable is connected properly.
The encoder disconnection detection method is abnormal.	Check whether n4-10/n5-10/n6-10 is set incorrectly.	Check whether n4-10/n5-10/n6-10 is set incorrectly. For example, if this parameter is set to 4 for AB single-ended signals, a fault will be reported if this parameter is set to the default value of 2.
The encoder signal is being disturbed seriously.	Check the encoder output signal waveform through the oscilloscope for serious interference.	1. Ensure that the encoder shield is grounded properly. 2. Route the encoder signal cable and the power cable through different routes.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

20-2：Encoder parameter error

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The deviation between the set motor speed and the encoder feedback speed is large.

Troubleshooting:

Cause	Check method	Solution
Parameters are set incorrectly.	1. Check whether the encoder PPR is set correctly. 2. Check whether the motor parameters (rated motor speed, frequency, and pole pairs) are set correctly.	1. Set the number of encoder PPR correctly. 2. Set the motor parameters (rated motor speed, frequency, and number of pole pairs) correctly.

The encoder is faulty.	1. Check whether the encoder is installed properly. 2. Check whether the encoder is wired properly. 3. Check whether the encoder feedback signal and power supply are normal.	1. Install the encoder properly. 2. Ensure that the encoder is wired properly. 3. Ensure that the encoder feedback signal and power supply are normal. 4. Replace the encoder.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

20-4：Motor runs without no encoder in FVC mode

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The PG card is not detected when operating in FVC mode.

Troubleshooting:

Cause	Check method	Solution
The PG card is offline or not installed.	1. Check whether the PG card is installed. 2. Check whether the n4-01 (PG card) is online.	1. Check that the PG card is installed correctly. 2. Check that the n4-01 (PG card) is online.
The PG card is connected loosely.	Check whether the PG card module is connected loosely.	Re-install or fix the PG card module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

20-5：Encoder speed test fluctuation exceeding the allowable range

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The encoder speed measurement fluctuation exceeds the range of n4-22. This fault is mainly used to detect faults such as encoder cables, signal interference, and loose encoder installation.

Troubleshooting:

Cause	Check method	Solution
The encoder is installed improperly.	1. Check whether the encoder is installed properly. 2. Check whether	Install the encoder properly.

	the fixing method is proper.	
The encoder signal is being disturbed.	Check the encoder output signal waveform through the oscilloscope for serious interference.	1. Ground the encoder shield. 2. Route the encoder signal cable and the power cable through different routes. 3. If emergency operation is required, adjust the value of n4-21 or n4-23 properly, or set n4-20 to 0 to turn off software open circuit detection.
The encoder power supply is abnormal.	1. Check whether the encoder power cable is connected properly. 2. Check whether the encoder power supply voltage is consistent with the PG card power supply voltage.	Ensure the encoder is powered properly.
The encoder is disconnected.	Check whether the encoder is disconnected and whether there is an output signal.	Replace the encoder signal cable.
The motor gets stuck suddenly.	Check whether external devices, such as sudden brake close, cause the motor to suddenly get stuck.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

20-6：Passive switchover from FVC to SVC

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

After E11-04 is enabled, if an encoder feedback error occurs during operation, FVC switches to SVC passively, with an alarm reported during operation or a fault reported at stop.

Troubleshooting:

Cause	Check method	Solution
The encoder is installed improperly.	1. Check whether the encoder is installed properly. 2. Check whether the fixing method is proper.	Install the encoder properly.
The encoder signal is being disturbed.	Check the encoder output signal waveform through the oscilloscope for serious interference.	1. Ground the encoder shield. 2. Route the encoder signal cable and the power cable through different routes. 3. If emergency operation is required, adjust the value of n4-21 or n4-23

		properly, or set n4-20 to 0 to turn off software open circuit detection.
The encoder power supply is abnormal.	1. Check whether the encoder power cable is connected properly. 2. Check whether the encoder power supply voltage is consistent with the PG card power supply voltage.	Ensure the encoder is powered properly.
The encoder is disconnected.	Check whether the encoder is disconnected and whether there is an output signal.	Replace the encoder signal cable.
The motor gets stuck suddenly.	Check whether external devices, such as sudden brake close, cause the motor to suddenly get stuck.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

20-8：Z signal interference fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

When n4-30/n5-30/n6-30 is enabled, the encoder zero position angle deviation is large, and F20-8 is reported.

Troubleshooting:

Cause	Check method	Solution
The Z signal is being disturbed when the synchronous motor is equipped with the ABZ encoder in closed-loop control mode.	Check whether the zero point position angle of the encoder is correct.	Install the encoder properly.

20-9：Z signal loss fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

When n4-31/n5-31/n6-31 is enabled, the encoder Z signal is lost and F20-9 is reported.

Troubleshooting:

Cause	Check method	Solution
The Z signal is lost when the synchronous motor is equipped with the ABZ encoder in closed-loop control mode.	Check whether the encoder Z signal is lost.	Contact Inovance for technical support.

20-10：Software version of the encoder signal detection module too early

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The software version of the encoder signal detection module is too early, which cannot support permanent magnet synchronous motor control.

Troubleshooting:

Cause	Check method	Solution
The software version of the encoder signal detection module does not support permanent magnet synchronous motor control.	Contact Inovance for technical support to check whether the software version of the encoder signal detection module is too early.	Contact Inovance for technical support.

20-11：Software version of the encoder signal detection module not match

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The software version of the encoder signal detection module does not match.

Troubleshooting:

Cause	Check method	Solution
The PG module does not support speed measurement at the current carrier frequency.	Contact Inovance for technical support to check whether the software version of the encoder signal detection module does not match.	Contact Inovance for technical support.

20-12：Absolute position encoder angle error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The absolute position encoder angle signal feedback is incorrect.

Troubleshooting:

Cause	Check method	Solution
1. The encoder rotor slips. 2. The accurate zero point angle is not auto-tuned by the encoder. 3. Other causes lead to the fault.	1. Fix the encoder position, record the zero angle (n4-12), and then perform auto-tuning. 2. Check whether n4-12 is an auto-tuned value. The zero point angle can be auto-tuned by setting b5-00 to 2 or 7. Confirm whether the encoder direction is consistent with the operating direction of the motor before setting b5-00 to 7.	Install the position encoder correctly and auto-tune its zero point angle.

22-1：Encoder not connected

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

No encoder signal is detected during dynamic auto-tuning.

Troubleshooting:

Cause	Check method	Solution
The encoder is installed improperly.	1. Check whether the encoder is installed properly. 2. Check whether the fixing method is proper.	Install the encoder properly.
Parameters are set improperly.	Check whether encoder related parameters are set correctly and match the encoder type (check the corresponding group n4/n5/n6 according to the speed feedback defined by d0-11).	1. Check that the encoder related parameters are set correctly and match the encoder type (check the setting of group n4/n5/n6 parameters according to the speed feedback defined by d0-11).

		2. If the SVC or V/f control mode is adopted and no encoder is required, disable the encoder module. (Set n4.00/n5.00/n6.00 to 0 according to the selection of d0-11.)
The encoder cable is connected improperly.	Check whether the encoder cables are connected properly.	Replace the encoder signal cable.
The encoder power supply is abnormal.	1. Check whether the encoder power cable is connected properly. 2. Check whether the encoder power supply voltage is consistent with the PG card power supply voltage.	Ensure the encoder is powered properly.
The motor is stuck.	Check whether the motor is stuck due to external devices, such as a closed brake.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

22-2：Wrong encoder pulses per revolution

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The speed feedback value detected during dynamic auto-tuning is inconsistent with the speed reference.

Troubleshooting:

Cause	Check method	Solution
Parameters are set incorrectly.	1. Check whether the encoder PPR is set correctly. 2. Check whether the motor parameters (rated motor speed, frequency, and pole pairs) are set correctly.	1. Set the number of encoder PPR correctly. 2. Set the motor parameters (rated motor speed, frequency, and number of pole pairs) correctly.
The encoder is faulty.	1. Check whether the encoder is installed properly. 2. Check whether the encoder is wired properly. 3. Check whether the encoder feedback signal and power supply are normal.	1. Check whether the encoder is installed properly. 2. Check whether the encoder is wired properly. 3. Check whether the encoder feedback signal and power supply are normal. 4. Replace the encoder.
Other fault causes lead to the	Contact Inovance for technical support.	Contact Inovance for technical support.

fault.		

22-3：Position detection error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

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Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

22-4：Incorrect basic motor parameters

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Incorrect basic motor parameters are detected.

Troubleshooting:

Cause	Check method	Solution
Motor basic parameters are set incorrectly.	Check whether basic motor parameters are set properly.	Set motor basic parameters correctly according to the motor nameplate.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

22-5：Wrong motor expansion parameters

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Auto-tuned parameter values are beyond the normal range.

Troubleshooting:

Cause	Check method	Solution
Motor basic parameters are set incorrectly.	Check whether basic motor parameters are set properly.	Set motor basic parameters correctly according to the motor nameplate.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

22-15：Encoder signal interference

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The ripple is large in the encoder signal speed test.

Troubleshooting:

Cause	Check method	Solution
The ripple is large in the encoder signal speed test.	1. Check whether the encoder is installed securely. 2. Check the encoder for open circuit and pulse loss. Check that the shield of the signal cable is connected as required, and that the signal cable is grounded and separated from the power cable.	Ensure that the encoder is installed properly, the related signal cable is connected properly, and the shield is connected as required.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

22-16：Magnetic field saturation coefficient auto-tuning failure of asynchronous motor

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Magnetic field saturation coefficient of the asynchronous motor is not auto-tuned.

Troubleshooting:

Cause	Check method	Solution
The magnetic field saturation coefficient auto-tuning is canceled due to excessively heavy load.	Check whether the motor load is excessively heavy.	Reduce the load and perform auto-tuning again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

31-1：PID feedback loss

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

When the process PID is enabled, the PID feedback value is lower than the feedback error detection threshold (L4-27) for a period longer than the value defined by L4-28. In this case, the PID feedback loss fault (F31-1) is triggered.

Troubleshooting:

Cause	Check method	Solution
The PID feedback value is abnormal or is set incorrectly.	1. Check whether the PID feedback is normal 2. Check whether the PID feedback source is set improperly.	1. Ensure that the PID feedback source is correct. 2. Replace the PID feedback signal cable.
The PID feedback error detection value is set improperly.	Check whether the feedback error detection threshold L4-27 is set to an excessively low value.	Set the feedback error detection threshold (L4-27) properly.
The PID feedback fluctuates greatly, and the detection time for PID feedback error is too short.	1. Check whether the PID feedback fluctuates greatly. Check the feedback signal for interference, and rectify feedback signal source errors.	1. Check whether the PID feedback fluctuates greatly. Check the feedback signal for interference, and rectify feedback signal source errors. 2.

		Increase the PID feedback error detection threshold (L4-28).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

32-1：Fan status fault

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The fan exception flag bit is set to 1 and the preset time is exceeded.

Troubleshooting:

Cause	Check method	Solution
The phase sequence of the fan is incorrect.	Check that the fan phase sequence is correct.	Ensure that the fan phase sequence and wiring are normal.
An error or phase loss occurs on the phase sequence detection circuit.	Check whether the input power supply of the phase sequence detector is excessively low or phase loss occurs.	Ensure that the input power of the phase sequence detector is normal.
The fan phase sequence detector is damaged.	Check whether the fan phase sequence detector is damaged.	Replace the fan phase sequence detector.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

32-2：MD880 inverter fan status fault

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The fan exception flag bit is set to 1 and the preset time is exceeded.

Troubleshooting:

Cause	Check method	Solution
The phase sequence of the fan is incorrect.	Check that the fan phase sequence is correct.	Ensure that the fan phase sequence and wiring are normal.
An error or phase loss occurs on the phase sequence detection circuit.	Check whether the input power supply of the phase sequence detector is excessively low or phase loss occurs.	Ensure that the input power of the phase sequence detector is normal.
The fan phase sequence detector is damaged.	Check whether the fan phase sequence detector is damaged.	Replace the fan phase sequence detector.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

42-1: Excessive speed deviation of motor

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited

current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

If the deviation between the actual motor speed and speed reference keeps higher than the threshold defined by E8-06 during normal operation or decelerate-to-stop in speed control mode for a period longer than the time defined by E8-07, F42-1 (Excessive motor speed deviation) is triggered.

Troubleshooting:

Cause	Check method	Solution
The acceleration/deceleration time is too short. The motor cannot follow the set speed.	Check whether the acceleration/deceleration time set in group C7/C8 is proper.	1. Set the acceleration/deceleration time properly. 2. Perform acceleration feedforward compensation.
The load is too heavy or the motor is stalled.	1. Check the load condition. 2. Check the motor and mechanical drive conditions.	1. Reduce the load or select the drive properly. 2. Ensure that the motor and mechanical drive are normal.
The detection threshold for excessive deviation (E8-06) or the detection time for excessive deviation (E8-07) is set to an excessively low value.	Check whether E8-06 and E8-07 are set properly.	Set E8-06 and E8-07 properly.
The speed loop PI parameter value is excessively low in the vector control mode.	Increase the speed loop PI parameter properly and check whether the fault can be reset.	Increase the value of the speed loop PI parameter.
The encoder parameters are set incorrectly.	Check whether encoder parameters n4 to n6 are set properly.	Set encoder parameters properly.

43-1：Motor speed out-of-limit

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

Motor overspeed fault (F43-1) is triggered in the following two conditions:
The actual motor speed keeps exceeding the positive speed limit U9-18 + E8-04 for a period longer than the time defined by E8-05.
The actual motor speed keeps lower than the negative speed limit U9-19 - E8-04 for a period longer than the

time defined by E8-05.

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Troubleshooting:

Cause	Check method	Solution
The motor is driven by external force.	Check the actual motor load.	Check the actual motor load.
Under heavy load conditions, the torque limit setting is abnormal, and the load is accelerated by its own gravity.	Check whether the torque limit is set properly.	Set the torque limit properly.
Under heavy load conditions, the power rating of the drive is too low to drive the load.	Check whether the rated power of the module (A2-01) is low.	Select the drive with the proper power rating.
The motor control is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-1：Encoder detection module 1 activated but offline

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the encoder type is active, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n4-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has	Check whether the slot of the selected	Re-tighten the screws that secure the

been loosened.	expansion module (n4-00 [Expansion slot selection]) is loose.	expansion module slot.
The expansion module type is incorrect.	1. Check that the expansion module inserted in the corresponding slot of n4-00 [Expansion slot selection] is a PG card module. 2. Check whether the encoder type defined by n4-02 is consistent with the actual encoder type.	Check that the encoder type (n4-02) is the same as the expansion module inserted in the corresponding slot defined by n4-00 [Expansion slot selection].
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-2：Encoder detection module 2 activated but offline

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the encoder type is active, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n5-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the slot of the selected expansion module (n5-00 [Expansion slot selection]) is loose.	Re-tighten the screws that secure the expansion module slot.
The expansion module type is	1. Check that the expansion module inserted in the corresponding slot of	Check that the encoder type (n5-02) is the same as the expansion module

incorrect.	n5-00 [Expansion slot selection] is a PG card module. 2. Check whether the encoder type defined by n5-02 is consistent with the actual encoder type.	inserted in the corresponding slot defined by n5-00 [Expansion slot selection].
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-3：Encoder detection module 3 activated but offline

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the encoder type is active, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n6-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the slot of the selected expansion module (n6-00 [Expansion slot selection]) is loose.	Re-tighten the screws that secure the expansion module slot.
The expansion module type is incorrect.	1. Check that the expansion module inserted in the corresponding slot defined by n6-00 [Expansion slot selection] is a PG card module. 2. Check whether the encoder type defined by n6-02 is consistent with the	Check that the encoder type (n6-02) is the same as the expansion module inserted in the corresponding slot defined by n6-00 [Expansion slot selection].

	actual encoder type.	
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-4：I/O module 1 activated but offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the module type has been enabled, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n7-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the slot of the selected expansion module (n7-00 [Expansion slot selection]) is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
The expansion module type is incorrect.	1. Confirm that the expansion module inserted in the corresponding slot defined by n7-00 [Expansion slot selection] is an I/O module. 2. Check whether n7-02 [Module type selection] is consistent with the actual module type.	1. Confirm that the expansion module inserted is the I/O module. 2. Confirm the I/O module type defined by n7-02.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-5：I/O module 2 activated but offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the module type has been enabled, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n8-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the slot of the selected expansion module (n8-00 [Expansion slot selection]) is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
The expansion module type is incorrect.	1. Confirm that the expansion module inserted in the corresponding slot defined by n8-00 [Expansion slot selection] is an I/O module. 2. Check whether n8-02 [Module type selection] is consistent with the actual module type.	1. Confirm that the expansion module inserted is the I/O module. 2. Confirm the I/O module type defined by n8-02.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-6：I/O module 3 activated but offline

Default fault 0: Coast to stop

Reset method: Manual reset

level:

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the module type has been enabled, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n9-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the slot of the selected expansion module (n9-00 [Expansion slot selection]) is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
The expansion module type is incorrect.	1. Confirm that the expansion module inserted in the corresponding slot defined by n9-00 [Expansion slot selection] is an I/O module. 2. Check whether n9-02 [Module type selection] is consistent with the actual module type.	1. Check that the expansion module inserted is I/O module. 2. Check the I/O module type through n9-02.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-7: Bus adapter A activated but offline, configured communication card offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n1-00 has been set and the corresponding module has been inserted into the slot, but no data is received within 1s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether the expansion card slot selected for the module configured in n1-00 [Bus adapter A bus type] matches the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the expansion card slot selected by the module configured in n1-00 [Bus adapter A bus type] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
The expansion module type is incorrect.	Ensure that the bus type selected in n1-00 [Bus adapter A bus type] is the same as the bus type of the expansion module inserted in the expansion card slot.	Check that the expansion module inserted matches the bus type configured by the bus adapter (n1-00).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-8: Bus adapter B activated but offline, configured communication card offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop

2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n2-00 has been set and the corresponding module has been inserted into the slot, but no data is received within 1s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether the expansion card slot selected for the module configured in n2-00 [Bus adapter B bus type] matches the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the expansion card slot selected by the module configured in n2-00 [Bus adapter B bus type] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
The expansion module type is incorrect.	Check that the bus type selected in n2-00 [Bus adapter B bus type] is the same as the bus type of the expansion module inserted in the expansion card slot.	Check that the expansion module inserted matches the bus type configured by the bus adapter (n2-00).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-9：Redundant bus adapter activated but offline, communication card offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n3-00 has been set and the corresponding module has been inserted into the slot, but no data is received within 1s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether the expansion card slot selected for the module configured in n3-00 [Bus adapter C bus type] matches the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the expansion card slot selected by the module configured in n3-00 [Bus adapter C bus type] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
The expansion module type is incorrect.	Check that the bus type selected in n3-00 [Bus adapter C bus type] is the same as the bus type of the expansion module inserted in the expansion card slot.	Check that the expansion module inserted matches the bus type configured by the bus adapter (n3-00).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-10：Synchronous voltage detection module activated but offline

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited

speed
5: Operated at limited torque
6: Display alarm only

Cause:

The expansion module slot (n19-00) is selected, but no data is received.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n19-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the expansion module slot corresponding to n19-00 [Expansion slot selection] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-11：Dual-port RAM card activated but offline

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：
0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

When A7-01 (Carrier synchronization) is enabled, A7-03 (Expansion slot) is selected but no data is received.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether A7-15 (Dual-port RAM	Set the slot properly.

	card slot selection) matches the actual slot of the module.	
The expansion module slot has been loosened.	Check whether the expansion module slot corresponding to A7-15 [Dual-port RAM card slot selection] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-12：Synchronous voltage detection module 1 activated but offline

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The expansion slot is selected, but no data is received.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n19-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the expansion module slot corresponding to n19-00 [Expansion slot selection] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

44-15：HSTM-10 module activated but offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The slot has been activated and the module type has been enabled, but no data is received in 0.5s.

Troubleshooting:

Cause	Check method	Solution
The slot is set improperly.	Check whether n32-00 [Expansion slot selection] is consistent with the actual slot of the module.	Set the slot properly.
The expansion module slot has been loosened.	Check whether the expansion module slot corresponding to n32-00 [Expansion slot selection] is loose.	Check whether the expansion module slot is loosened, re-tighten the fixing screws of the expansion module slot.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

45-1: Slot address conflict between encoder detection modules 1 and 2

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed

5: Operated at limited torque
6: Display alarm only

Cause:

n4-00 and n5-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The setting of n4-00 for encoder detection module 1 and n5-00 for encoder detection module 2 is the same.	Check whether the expansion slots set by n4-00 and n5-00 are the same.	Set n4-00 and n5-00 correctly.

45-2：Slot address conflict between encoder detection modules 1 and 3

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n4-00 and n6-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The setting of n4-00 for encoder detection module 1 and n6-00 for encoder detection module 3 is the same.	Check whether the expansion slots set by n4-00 and n6-00 are the same.	Set n4-00 and n6-00 correctly.

45-3：Slot address conflict between encoder detection modules 2 and 3

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n5-00 and n6-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The setting of n5-00 for encoder detection module 2 and n6-00 for encoder detection module 3 is the same.	Check whether the expansion slots set by n5-00 and n6-00 are the same.	Set n5-00 and n6-00 correctly.

45-4：Slot address conflict between I/O modules 1 and 2

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited

torque

6: Display alarm only

Cause:

n7-00 and n8-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The settings of n7-00 for I/O module 1 and n8-00 for I/O module 2 are the same.	Check whether the expansion slots set by n7-00 and n8-00 are the same.	Set n7-00 and n8-00 correctly.

45-5：Slot address conflict between I/O modules 1 and 3

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop

1: Emergency stop

2: Stop in normal stop mode

3: Operated at limited current

4: Operated at limited speed

5: Operated at limited torque

6: Display alarm only

Cause:

n7-00 and n9-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The settings of n7-00 for I/O module 1 and n9-00 for I/O module 3 are the same.	Check whether the expansion slots set by n7-00 and n9-00 are the same.	Set n7-00 and n9-00 correctly.

45-6：Slot address conflict between I/O modules 2 and 3

Default fault 0: Coast to stop

Reset method: Manual reset

level：

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n8-00 and n9-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The settings of n8-00 for I/O module 2 and n9-00 for I/O module 3 are the same.	Check whether the expansion slots set by n8-00 and n9-00 are the same.	Set n8-00 and n9-00 correctly.

45-7：Slot address range conflict between bus adapters A and B

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An address range conflict occurs between the bus type (n1-00) configured by bus adapter and the

communication module configured by bus adapter (n2-00).

Troubleshooting:

Cause	Check method	Solution
An address range conflict occurs between the bus type (n1-00) configured by bus adapter and the communication module configured by bus adapter (n2-00).	Check whether the card slot of the corresponding communication module set by n1-00 [Bus adapter A bus type] and n2-00 [Bus adapter B bus type] is the same.	1. Set the slot position of the corresponding communication module correctly. 2. Install the slot position of the corresponding communication module correctly.

45-8：Slot address segment conflict between bus adapter A and the redundant bus adapter

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An address range conflict occurs between the bus type configured by bus adapter (n1-00) and the communication module configured by the redundant bus adapter (n3-00).

Troubleshooting:

Cause	Check method	Solution
An address range conflict occurs between the bus type configured by bus adapter (n1-00) and the communication module configured by the redundant bus adapter (n3-00).	Check whether the card slot of the communication module set by n1-00 [Bus adapter A bus type] is the same as that of the corresponding communication module bound by n3-00 [Bus adapter C function selection].	1. Set the slot position of the corresponding communication module correctly. 2. Install the slot position of the corresponding communication module correctly.

45-9：Slot address segment conflict of bus adapter B and the redundant bus adapter

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An address range conflict occurs between the bus type configured by bus adapter (n2-00) and the communication module configured by the redundant bus adapter (n3-00).

Troubleshooting:

Cause	Check method	Solution
An address range conflict occurs between the bus type configured by bus adapter (n2-00) and the communication module configured by the redundant bus adapter (n3-00).	Check whether the card slot of the communication module set by n2-00 [Bus adapter B bus type] is the same as that of the corresponding communication module bound by n3-00 [Bus adapter C function selection].	1. Set the slot position of the corresponding communication module correctly. 2. Set the slot position of the corresponding communication module correctly.

46-1：Parameters are set incorrectly.

Default fault level：6: Display alarm only

Reset method：Automatic reset

Fault level：6: Display alarm only; 7: No action

Cause:

You can check the details through U8-44.

Troubleshooting:

Cause	Check method	Solution
You can check the details through U8-44.	The cause of this fault can be located through the fault information. The specific information can be queried through U8-44. If the fault message is 0, the parameter setting is normal. If the fault message is 1, check for pulse-by-pulse current limit conflict. If the fault message is 2, check the minimum value (C4-03) and maximum value (C4-04) set by the motorized potentiometer. If the fault message is 3, check the conflict between RFG arc time 1 and acceleration time 1. If the fault message is 4, check the conflict between RFG arc time 1 and deceleration time 1. If the fault message is 5, check the conflict between RFG arc time 2 and acceleration time 2. If the fault message is 6, check the conflict between RFG arc time and deceleration time 2. If the fault message is 7, check the conflict between RFG arc time 3 and acceleration time 3. If the fault message is 8, check the conflict between RFG arc time 3 and deceleration time 3. If the fault message is 9, check the conflict between RFG arc time 4 and acceleration time 4. If the fault message is 10, check the conflict between RFG arc time 4 and deceleration time 4. If the fault message is 11, check the conflict between the maximum speed and minimum speed of the motor. If the fault message is 12, check the conflict between the lower limit and upper limit of jump frequency 1. If the fault message is 13, check the	Set parameters properly.

	conflict between the lower limit and upper limit of jump frequency 2. If the fault message is 14, check the conflict between the lower limit and upper limit of torque limit digital setting. If the fault message is 15, check the conflict between the lower limit and upper limit of speed loop Kp adaptive switchover. If the fault message is 16, check the conflict between the low frequency and high frequency of speed loop switchover. If the fault message is 17, check the conflict between the lower limit and upper limit of the proportional adaptive current of the current loop. If the fault message is 18, check the conflict between lower frequency and upper frequency of model switchover. If the fault message is 19, check the conflict between the lower frequency and upper frequency during switchover from FVC to SVC If the fault message is 20, check the conflict between the minimum input value (F2-06) of AI1 curve and the maximum input value (F2-08). If the fault message is 21, check the conflict between the minimum input value (F2-10) of the AI2 curve and the maximum input value (F2-12). If the fault message is 22, check the conflict between the minimum output proportion (F3-08) of AO1 curve and the maximum output proportion (F3-10). If the fault message is 23, check the conflict between the minimum output proportion (F3-12) of AO2 curve and the maximum output proportion (F3-14). If the fault message is 24, check the	

	conflict between the minimum input frequency (F4-05) of the HDI1 curve and the maximum input frequency (F4-07). If the fault message is 25, check the conflict between the minimum input frequency (F4-09) of the HDI2 curve and the maximum input frequency (F4-11). If the fault message is 26, check the conflict between the minimum output proportion (F5-07) of the HDO2 curve and the maximum output proportion (F5-09). If the fault message is 27, check the conflict between the minimum output proportion (F5-11) of the HDO2 curve and the maximum output proportion (F5-13). If the fault message is 28, check whether the slot number of the communication card selected by fieldbus adapter A is set. If the fault message is 29, check whether the slot number of the communication card selected by fieldbus adapter B is set. If the fault message is 31, check whether the fault reset interval (H0-09) is greater than the fault reset time (H0-08). If the fault message is 32, check for encoder module slot setting conflict. If the fault message is 33, check for I/O expansion module slot setting conflict. If the fault message is 34, check for fault exception handling level setting conflict. If the fault message is 36, check whether the points of multi-point curve module A (L8-01 to L8-20) are incremented. If the fault message is 37, check whether the points of multi-point curve	

	module B (L8-22 to L8-41) are incremented. If the fault message is 38, check whether the braking release threshold (A5-04) is set improperly. If the fault message is 39, check whether the number of channels triggering the oscilloscope (A12-20) is more than 8 during ADC carrier cycle. If the fault message is 44, check whether the threshold for releasing all brakes (A5-05) is set improperly. If the fault message is 47, check for parameter setting conflict of I/O expansion module 1 [group n25]. For example, the minimum input of AI curve (n25-42/n25-52/n25-62) is higher than the maximum input value (n25-44/n25-54/n25-64), or the minimum output proportion of the AO curve (n25-72/n25-82/n25-92) is higher than the maximum output proportion (n25-74/n25-84/n25-94). If the fault message is 48, check for parameter setting conflict of I/O expansion module 2 [group n28). For example, the minimum input of AI curves (n28-42/n28-52/n28-62) is higher than the maximum input value (n28-44/n28-54/n28-64), or the minimum output proportion of the AO curve (n28-72/n28-82/n28-92) is higher than the maximum output proportion (n28-74/n28-84/n28-94). If the fault message is 49, check for parameter setting conflict of I/O expansion module 3 [group n31. For example, the minimum input of AI curve (n31-42/n31-52/n31-62) is higher than the maximum input value (n31-44/n31-54/n31-64), or the minimum output proportion of the AO curve (n31-72/n31-82/n31-92) is higher than the maximum output proportion (n31-	

	74/n31-84/n31-94). If the fault message is 50, check whether the charging limit curve is set incorrectly (the voltage points are not incremental or the current points are not incremental). If the fault message is 51, check whether the current feedforward function on the low voltage side is inactive (the current sampling channel is not configured but the current feedback function is enabled). If the fault message is 52, check whether the voltage detection source on the low voltage side is not configured. If the fault message is 53, check whether the HSVM module corresponding to the voltage detection source on the low voltage side is not configured. If the fault message is 54, check whether the HSVM module corresponding to the soft start feedback voltage detection source on the low voltage side is not configured. If the fault message is 55, check whether the HSVM module corresponding to the current detection source on the low voltage side is not configured. If the fault message is 56, check whether the HSVM module corresponding to the current detection source on the medium voltage side is not configured. If the fault message is 57, check whether the voltage points of the undervoltage/overvoltage protection function on the low voltage are not set incrementally. If the fault message is 60, check whether the voltage points of the voltage regulator on the medium	

	voltage side are not set incrementally. If the fault message is 61, check for conflict between the lower limit and upper limit of voltage setting in the buck mode of setting channel 1. If the fault message is 62, check for conflict between the lower limit and upper limit of voltage setting in boost mode of setting channel 1. If the fault message is 63, check for conflict between the lower and upper limits of voltage setting in the buck mode of channel 2. If the fault message is 64, check for conflict between the lower and upper limits of voltage setting in the boost mode of channel 2. If the fault message is 65, check for conflict between current feedforward function on the medium voltage side is inactive (current sampling channel is not configured but the corresponding current feedforward function is enabled, or the sampling card does not support the current feedforward function on the medium voltage side). If the fault message is 66, check for conflict between the voltage detection source and soft start feedback voltage detection source on the low voltage side. If the fault message is 67, check for conflict between the current detection source on the low voltage side and the current detection source on the high voltage side. If the fault message is 68, check for the read index setting conflict of address mapping adapter A. If the fault message is 69, check for the write index setting conflict of address mapping adapter A. If the fault message is 70, check for write-mapped internal address setting	

	conflict of address mapping adapter A. If the fault message is 71, check for the read index setting conflict of address mapping adapter B. If the fault message is 72, check for the write index setting conflict of address mapping adapter B. If the fault message is 73, check for write-mapped internal address setting conflict of address mapping adapter B. If the fault message is 74, check for conflict between write-mapped internal address settings of address mapping adapters A and B. If the fault message is 75, check whether the number of I/Os of the DeviceNet module exceeds the maximum value. If the fault message is 76, check whether the number of paralleled motors is set incorrectly (the number of permanent magnet synchronous motors can only be set to 1). If the fault message is 77, check whether the card type set by the custom communication card is incorrect. If the fault message is 78, check whether the back EMF corresponding to the maximum speed of the synchronous motor is too high. Inhibiting pulse generation during operating at high speed may damage the drive. If protective measures are set, you can set H0-41 to turn off the alarm. If the fault message is 79, check whether the maximum motor speed (d0-06) exceeds the maximum allowable output of the current carrier frequency. Increase the carrier frequency A4-40 (when A4-36 = 1) or decrease the carrier frequency ratio A4-41.	

	If the fault message is 80, check whether the carrier frequency ratio A4-41 is lower than the minimum value allowed by the system. If the fault message is 81, check for conflict between the minimum input frequency in group n32 and the maximum input frequency. If the fault message is 82, check whether d0-00 is set to synchronous motor and the control mode is set to V/f, but the actual synchronous motor runs under SVC control. If the fault message is 89, check for position correction setting parameter conflict (o19-23 greater than or equal to o19-24). If the fault message is 90, check whether the position synchronization control setting (o16-02) is the same as the feedback source (o15-10). If the fault message is 91, check whether the start segment of multi-position reference is higher than the end segment. If the fault message is 92, check whether the position reference exceeds the maximum range. If the fault message is 93, check whether the position feedback exceeds the maximum indication range. If the fault message is 94, check whether the negative software limit is higher than the positive software limit. If the fault message is 95, check whether the speed of each point of the load monitoring curve in group L15 is not incremented. If the fault message is 96, check whether the underload threshold in load monitoring curve in group L15 is above or equal to the overload threshold. If the fault message is 97, check	

	whether n0-01 indicates that the InoLink data interaction is excessive. If the fault message is 98, check for conflict between the upper limit (L7-61) and lower limit (L7-62) of the limit module A. If the fault message is 99, check for conflict between the upper limit (L7-64) and lower limit (L7-65) of limit module B. If the fault message is 100, check for conflict between the upper limit (L7-67) and lower limit (L7-68) of limit module C. If the fault message is 101, check for conflict between the upper limit (L7-70) and lower limit (L7-71) of limit module D. If the fault message is 102, check for conflict between RFG arc time 1 and acceleration time 1 in group C8. If the fault message is 103, check for conflict between RFG arc time 1 and deceleration time 1 in group C8. If the fault message is 104, check for conflict between RFG arc time 2 and acceleration time 2 in group C8. If the fault message is 105, check for conflict between RFG arc time 2 and deceleration time 2 in group C8. If the fault message is 106, check for conflict between RFG arc time 3 and acceleration time 3 in group C8. If the fault message is 107, check for conflict between RFG arc time 3 and deceleration time 3 in group C8. If the fault message is 108, check for conflict between RFG arc time 4 and acceleration time 4 in group C8. If the fault message is 109, check for conflict between RFG arc time 4 and deceleration time 4 in group C8. If the fault message is 110, check for	

	n34-00 adapter A PZD double word setting conflict (adjacent PZD double word output enable). If the fault message is 111, check for n36-00 adapter B PZD double word setting conflict (adjacent PZD double word output enable). If the fault message is 112, check whether the process data output settings of n1-04 to n1-19 do not match the process data displayed by n1-84. If the fault message is 113, check whether the process data output settings of n2-04 to n2-19 do not match the process data displayed in n2-84. If the fault message is 114: Parameter mapping 1 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 115: Parameter mapping 2 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 116: Parameter mapping 3 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 117: Parameter mapping 4 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified;	

	the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 118: Parameter mapping 5 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 119: Parameter mapping 6 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 120: Parameter mapping 7 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 121: Parameter mapping 8 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 122: Parameter mapping 9 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 123: Parameter	

	mapping 10 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 124: Parameter mapping 11 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 125: Parameter mapping 12 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 126: Parameter mapping 13 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 127: Parameter mapping 14 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 128: Parameter mapping 15 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified;	

	the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 129: Parameter mapping 16 is set incorrectly (possible causes: source of the modified value exceeds the upper and lower limits of the parameter value to be modified; the parameter is read-only; and the address of the parameter to be modified is incorrect). If the fault message is 130: Parameter modification conflict of parameter mapping 1 to 16 (different source values are written to the same address) If the fault message is 501: The number of motor pole pairs is set incorrectly. If the fault message is 502: The motor nameplate parameter is set incorrectly. Check whether the rated voltage, current, and power are set correctly. If the fault message is 503: The no-load current of the asynchronous motor is too large, check the motor parameters and perform complete auto-tuning. If the fault message is 504: A rated magnetic flux error occurs. Ensure that the mutual inductance or no-load current is correct. If the fault message is 505: The rotor resistance of the asynchronous motor is abnormal or the rated speed is set incorrectly (d0-05 or d0-04 is set improperly). If the fault message is 506: Asynchronous motor flux weakening curve error If the fault message is 507: The numbers of pole pairs of the resolver and motor do not match. The number of pole pairs of the motor must be an integer multiple of that of the resolver.	

46-3：Simulation mode activation

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 6: Display alarm only; 7: No action

Cause:

Set [A8-22] to 1 to enter the simulation mode and set [A8-22] to 0 to exit the simulation mode.

Troubleshooting:

Cause	Check method	Solution
-	Contact Inovance for technical support.	-

47-1：STO1 input activation

Default fault level: 0: Coast to stop

Reset method: Auto reset/Manual reset

Fault level: 0: Coast to stop

Cause:

STO1 input is triggered when STO1 is activated and STO2 is normal.

Troubleshooting:

Cause	Check method	Solution
STO1 is activated.	Check the wiring and power supply of STO1 input circuit. Ensure that the positive and negative poles of STO1 24 VDC are connected correctly.	Check the wiring and power supply of STO1 input circuit. Ensure that the positive and negative poles of STO1 24 VDC are connected correctly.
The hardware does not support STO function.	Contact the technical personnel to check whether the AC drive supports STO function.	If the STO function is not available, disable the detection through H0-04.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-2：STO2 input activated

Default fault level: 0: Coast to stop

Reset method: Auto reset/Manual reset

Fault level: 0: Coast to stop

Cause:

STO2 input is triggered when STO2 is activated and STO1 is normal.

Troubleshooting:

Cause	Check method	Solution
STO2 is activated.	Check the wiring and power supply of STO2 input circuit. Ensure that the positive and negative poles of STO2 24 VDC are connected correctly.	Check the wiring and power supply of STO2 input circuit. Ensure that the positive and negative poles of STO2 24 VDC are connected correctly.
The hardware does not support STO function.	Contact the technical personnel to check whether the AC drive supports STO function.	If the STO function is not available, disable the detection through H0-04.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-4：STO power supply fault

Default fault level： 0: Coast to stop

Reset method： Auto reset/Manual reset

Fault level： 0: Coast to stop

Cause:

The STO-5 V power supply is faulty.

Troubleshooting:

Cause	Check method	Solution
The STO-5 V power supply is faulty.	Check the STO input circuit and power supply.	Ensure that the STO input circuit is connected properly with proper power supply.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-5：STO1 pulse auto-test error

Default fault level： 0: Coast to stop

Reset method： Auto reset/Manual reset

Fault level： 0: Coast to stop

Cause:

An STO1 input circuit detection error occurs.

Troubleshooting:

Cause	Check method	Solution
An STO1 input circuit detection	Check the STO input circuit and power	Ensure that the STO input circuit is

error occurs.	supply.	connected properly with proper power supply.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-6：STO2 pulse auto-test error

Default fault level： 0: Coast to stop　　Reset method： Auto reset/Manual reset

Fault level： 0: Coast to stop

Cause:

An STO2 input circuit detection error occurs.

Troubleshooting:

Cause	Check method	Solution
An STO2 input circuit detection error occurs.	Check the STO input circuit and power supply.	Ensure that the STO input circuit is connected properly with proper power supply.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-7：STO1 buffer error

Default fault level： 0: Coast to stop　　Reset method： Auto reset/Manual reset

Fault level： 0: Coast to stop

Cause:

An STO1 logic circuit detection error occurs.

Troubleshooting:

Cause	Check method	Solution
An STO1 logic circuit detection error occurs.	Check the wiring and power supply of the STO1 logic circuit.	Ensure that the STO1 logic circuit is connected properly with proper power supply.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-8：STO2 buffer error

Default fault　0: Coast to stop　　Reset method： Auto reset/Manual reset

level：

Fault level： 0: Coast to stop

Cause:

An STO2 logic circuit detection error occurs.

Troubleshooting:

Cause	Check method	Solution
An STO2 logic circuit detection error occurs.	Check the wiring and power supply of the STO2 logic circuit.	Ensure that the STO2 logic circuit is connected properly with proper power supply.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

47-9：STO input activated

Default fault level： 0: Coast to stop　　Reset method： Auto reset/Manual reset

Fault level： 0: Coast to stop

Cause:

STO1 and STO2 are activated simultaneously.

Troubleshooting:

Cause	Check method	Solution
The STO is activated.	Check the wiring and power supply of STO1 and STO2 input circuits. Check whether the positive and negative poles of 24 VDC of STO1 and STO2 are connected correctly.	Ensure that STO1 and STO2 input circuits are connected correctly with proper power supply. Ensure that the positive and negative poles of 24 VDC of STO1 and STO2 are connected correctly.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

48-1：Motor overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The motor temperature is detected to exceed the overtemperature threshold for a period longer than the preset time.

Troubleshooting:

Cause	Check method	Solution
1. The actual temperature of the motor is high and a motor heat dissipation abnormality occurs.	Check whether the actual motor temperature is too high.	1. Take measures for better dissipation of the motor.
After the motor temperature detection is enabled, the temperature sensor type is incorrect.	Select a proper temperature detection mode through E8-22.	2. Set the temperature sensor type correctly.
3. After the motor temperature detection is enabled, the temperature sensor is connected improperly.	Check whether the temperature sensor is connected properly.	3. Ensure stable cable connection of the temperature sensor.
4. The motor overtemperature threshold is excessively low.	Check whether E8-23 and E8-24 are set to excessively low values.	4. Set the motor overtemperature threshold properly.
5. The temperature detection module is abnormal.	Check whether the motor temperature detection module is abnormal.	5. Contact the agent or Inovance for technical support.

50-1：No SD card detected

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：6: Display alarm only; 7: No action

Cause:

The SD card is detected to be offline.

Troubleshooting:

Cause	Check method	Solution

The SD card is not installed or is installed improperly.	Check whether the SD card is installed or installed improperly.	Re-install the SD card.
The SD card is damaged.	Check whether the SD card is damaged. Check whether the fault is rectified after the SD card is replaced.	Replace the SD card.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

50-2：SD card error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only; 7: No action

Cause:

SD card read-write operations are abnormal.

Troubleshooting:

Cause	Check method	Solution
The SD card is connected loosely.	Check whether the SD card is installed or installed improperly.	Re-install the SD card.
The SD card is damaged.	Check whether the SD card is damaged. Check whether the fault is rectified after the SD card is replaced.	Replace the SD card.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

51-1：Insufficient power supply for HCU-RTC unit

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only; 7: No action

Cause:

The power supply of the RTC unit is excessively low.

Troubleshooting:

Cause	Check method	Solution

The RTC battery voltage is lower than 2.2 V.	Check whether the RTC battery voltage is too low. Check whether the fault is rectified after the battery is replaced.	Replace the RTC battery.
The module is faulty.	Contact Inovance for technical support.	Contact Inovance for technical support.

51-2：HCU-RTC read/write timeout

Default fault level： 6: Display alarm only　　Reset method： Next power-on

Fault level： 6: Display alarm only; 7: No action

Cause:

The RTC read-write operation times out.

Troubleshooting:

Cause	Check method	Solution
The RTC clock chip is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The peripheral circuit of RTC is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.

52-1：IDS communication fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

F52-1 (InoDriveStudio communication fault) is triggered when InoDriveStudio is disconnected from the drive after obtaining control permissions for controlling the motor operation.

Troubleshooting:

Cause	Check method	Solution
The SOP-20-880 operating panel is disconnected from the PC.	Check that the wiring is reliable.	Ensure the wiring is correct.
The SOP-20-880 operating panel is disconnected from the drive or connected improperly.	Check that the wiring is reliable.	Ensure the wiring is correct.
Interference exists.	Check that the cable is properly routed. You can install a magnetic ring to eliminate interference.	Eliminate external interference. You can enhance the anti-interference capability through installing a

		magnetic ring.

52-2：SOP-20-880 communication fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

F52-2 (SOP-20-880 communication fault) is triggered when SOP-20-880 gets the control permissions for controlling motor operations but is disconnected from the drive for a certain period of time.

Troubleshooting:

Cause	Check method	Solution
The SOP-20-880 operating panel is used to control multiple cascaded devices. When the panel is used to start one device, another device may be switched to.	The SOP-20-880 operating panel is used to control multiple cascaded devices. When the panel is used to start one device, another device may be switched to.	1. When the SOP-20-880 operating panel is used to control one device, switchover to another device is not allowed. 2. Set [A10-05] to 1 to inhibit detection on operating panel communication disconnection.
The SOP-20-880 operating panel is disconnected from the drive or connected improperly.	Check that the wiring is reliable.	Ensure the wiring is correct.
Interference exists.	Check that the cable is routed properly, and install the magnetic ring to eliminate interference.	Eliminate external interference. You can enhance the anti-interference capability through installing a magnetic ring.

53-1：CRC error in data received by HINT

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A CRC error occurs in the data received by the HINT from HCU or HPCU.

Troubleshooting:

Cause	Check method	Solution
H8 model: The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the	Re-connect or replace the optical fiber.

	fault can be rectified by reconnecting the optical fiber.	
H8 mode: The optical fiber head is polluted by dust.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
H1 to H7 models: The DB15 terminal and the flat cable between the HCU and HINT are in poor contact or loose.	Check whether DB15 terminals and flat cables are connected properly between the HCU and HINT.	Check whether DB15 terminals and flat cables between HCU and HINT are connected properly. If not, rectify the fault.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-2：HINT ID authentication error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The ID of the HINT board detected by HCU does not match.

Troubleshooting:

Cause	Check method	Solution
Software versions of HCU and HINT do not match.	Check whether the MCU software type matches the HINT board software type.	Check whether the MCU software type is consistent with the HINT board software type.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-3：Data reception failure of HCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The HCU fails to receive the data sent by the HINT board or HPCU parallel board.

Troubleshooting:

Cause	Check method	Solution

The HINT or HPCU board is not connected or the control power supply is not switched on.	Check whether the HINT or HPCU board is not connected or the control power supply is not switched on.	1. Connect the HINT board or the parallel board. 2. Check whether the HINT or parallel board power supply is normal.
H8 model: The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
H8 mode: The optical fiber head is polluted by dust.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
H1 to H7 models: The DB15 terminal and the flat cable between the HCU and HINT are in poor contact or loose.	Check whether DB15 terminals and flat cables of the HCU and HINT are connected properly.	Check whether DB15 terminals and flat cables of the HCU and HINT are connected properly. If not, rectify the fault.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-4：CRC error in data received by HCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A CRC error occurs in the data received by the HCU from HINT or HPCU.

Troubleshooting:

Cause	Check method	Solution
H8 model: The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
H8 mode: The optical fiber head is polluted by dust.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
H1 to H7 models: The DB15 terminal and the flat cable between the HCU and HINT are in	Check whether DB15 terminals and flat cables are connected properly between the HCU and HINT.	Check whether DB15 terminals and flat cables of the HCU and HINT are connected properly. If not, rectify the

poor contact or loose.		fault.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-5：HINT sync fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The carrier synchronization command is received from the HCU or HPCU outside the specified time range.

Troubleshooting:

Cause	Check method	Solution
Communication errors occur.	H8 models: Check whether the optical fiber is loose or in poor contact. H1 to H7 models: Check whether DB15 terminals and flat cables between the HCU and HINT are connected properly. Re-connect the optical fiber to see whether the fault can be rectified. If not, contact Inovance for technical support.	1. H8 models: Check whether the optical fiber is loose. H1 to H7 models: Check whether DB15 terminals and flat cables of the HCU and HINT are connected properly. If not, rectify the fault. 2. Contact the agent or Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-6：PWM data-write timeout

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The DSP does not update PWM data within the specified time range.

Troubleshooting:

Cause	Check method	Solution
The execution time of DSP is insufficient.	Reduce the number of oversampling points through A3-23 [Current sampling mode] and check whether	1. Reduce the carrier frequency. 2. Reduce the number of sampling points. 3. Contact technical support engineers

	the fault can be rectified.	of Inovance.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-7：Data reception failure of HINT

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The HINT has not received the data sent by HCU or HPCU.

Troubleshooting:

Cause	Check method	Solution
H8 model: The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
H8 mode: The optical fiber head is polluted by dust.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
H1 to H7 models: The DB15 terminal and the flat cable between the HCU and HINT are in poor contact or loose.	Check whether DB15 terminals and flat cables are connected properly between the HCU and HINT.	Check whether DB15 terminals and flat cables of the HCU and HINT are connected properly. If not, rectify the fault.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-8：CRC error in HCU data received by HPCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

CRC error occurs in the data received by HPCU from HCU.

Troubleshooting:

Cause	Check method	Solution

The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
The fiber optic head is polluted by dust or similar.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-9：HCU data reception failure of HPCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The HPCU fails to receive the data sent by HCU.

Troubleshooting:

Cause	Check method	Solution
The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
The fiber optic head is polluted by dust or similar.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-10：CRC error in HINT data received by HPCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

CRC error occurs in the data received by HPCU from HINT.

Troubleshooting:

Cause	Check method	Solution
The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
The fiber optic head is polluted by dust or similar.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-11：HINT data reception failure of HPCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The HPCU does not receive the HINT data.

Troubleshooting:

Cause	Check method	Solution
The HINT is not powered on or the optical fiber is disconnected.	1. Check whether the HINT module is powered on. 2. Check whether the optical fiber is broken.	1. Check whether the HINT power supply is normal. 2. Check whether the optical fiber loop is normal.
The optical fiber is in poor contact or loosened.	Check whether the optical fiber is loose or in poor contact. Check whether the fault can be rectified by reconnecting the optical fiber.	Re-connect or replace the optical fiber.
The optical fiber head is polluted by dust.	Check whether the optical fiber head is polluted by dust. Clean or replace the optical fiber to see whether the fault can be rectified.	Clean or replace the optical fiber.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-12：HPCU synchronization error

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The carrier synchronization command sent by the HCU is received outside the specified time range.

Troubleshooting:

Cause	Check method	Solution
Communication errors occur.	Check whether the optical fiber is loose or in poor contact. Re-connect the optical fiber and check whether the fault is rectified. If not, contact Inovance for technical support.	Install the optical fiber properly and ensure that it is tight and in good contact.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

53-13: HINT not ready

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

Power-on not has not been completed but the RUN command has been received.

Troubleshooting:

Cause	Check method	Solution
Power-on not has not been completed but the RUN command has been received.	Wait until HINT is powered on and then run again to check whether the fault is rectified.	Wait until HINT is fully powered on and then run again.
The control power supply of HINT is abnormal.	Check whether the HINT control power is normal and whether the power supply is insufficient.	Check whether the HINT control power is normal. If not, ensure that the control power supply is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-1: Phase U upper bridge fault

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT feedback signal of the U-phase upper bridge is abnormal.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.
The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-2：Phase-U lower bridge fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT feedback signal of the phase-U lower bridge is abnormal.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.

	screws.	
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.
The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-3：Phase-V upper bridge fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT feedback signal of the phase-V upper bridge is abnormal.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.
The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-4：Phase-V lower bridge fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT feedback signal of the phase-V lower bridge is abnormal.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.
The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-5：Phase-W upper bridge fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT feedback signal of the phase-W lower bridge is abnormal.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.
The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-6：Phase-W lower bridge fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT feedback signal of the phase-W lower bridge is abnormal.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.

The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

57-7：IGBT fault

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The FPGA detects that the IGBT module feedback signal is abnormal during parallel operation.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	1. Check whether the output cable and motor are grounded. 2. Check whether the motor cable is short-circuited between phases. 3. The motor cable is in poor contact. Tighten the wiring screws.	Rectify peripheral faults, and check whether short circuit occurs on the motor or motor cables.
The IGBT is damaged.	Contact technical support to check whether the IGBT is damaged.	Contact Inovance for technical support.
The power board is damaged.	Replace the power board and check whether the fault is rectified.	Replace the power board.
The cable between the interface board and the power board is not connected reliably.	Check whether the cable between the interface board and the power board is connected reliably.	Check that the wiring is correct.
The flat cable between the power board and the gate driver is not connected reliably.	Check whether the flat cable between the power board and the gate driver is connected reliably.	Check that the wiring is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-1：IGBT module short-circuited

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The IGBT is detected to be short-circuited.

Troubleshooting:

Cause	Check method	Solution
The IGBT module is short-circuited.	Contact Inovance for technical support.	Replace the IGBT.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-2：Inverter output short circuited

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The output end of the drive is detected to be short-circuited.

Troubleshooting:

Cause	Check method	Solution
Check whether short circuit occurs between the output phases.	Check whether short circuit occurs between output phases with a multimeter.	Detect with a egger.
Check whether the output terminal is short-circuited to ground.	Check whether short circuit occurs between output phases with a multimeter.	Detect with a egger.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-3：AC drive output phase loss

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level： 0: Coast to stop

Cause:

No current is detected in the output terminal during auto-inspection.

Troubleshooting:

Cause	Check method	Solution
Output phase loss occurs.	Check whether the motor cables are disconnected.	Check wiring of the motor cables.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-4：Sensor detection error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected current is infinite.

Troubleshooting:

Cause	Check method	Solution
The Hall element is abnormal.	Check whether the Hall power supply cable is abnormal.	Check the Hall power supply.
Hall module disconnected	Check whether the Hall cable is in poor contact or disconnected.	The Hall cable is loose or in poor contact.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-5：Sensor installed improperly

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The current detection is reversed because the sensor is installed reversely.

Troubleshooting:

Cause	Check method	Solution
The sensor is installed reversely.	Check whether the sensor is installed	Rectify the sensor installation direction.

	reversely and whether the fault is rectified after the sensor installation direction is changed.	
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-6：Short circuit to ground

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The current exceeds the limit.

Troubleshooting:

Cause	Check method	Solution
The output terminal is short-circuited to ground.	Check the ground insulation of the output terminal.	Check the ground insulation of the output terminal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-7：Three-phase current unbalance

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The detected current of the three phases varies greatly.

Troubleshooting:

Cause	Check method	Solution
The load at the output side is unbalanced.	Check whether the load is normal.	Check whether the load is normal.
The accuracy of the current sensor is insufficient.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-8：Two-phase current imbalance

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The detected current the two phases varies greatly.

Troubleshooting:

Cause	Check method	Solution
The load at the output side is unbalanced.	Check whether the load is normal.	Check whether the load is normal.
The accuracy of the current sensor is insufficient.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

58-16：Auto-inspection interrupt

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The operation command is lost during auto-inspection.

Troubleshooting:

Cause	Check method	Solution
Auto-inspection is interrupted.	Check that the start/stop control word is normal during auto-inspection.	Ensure that the start/stop control word is normal during auto-inspection.
A fault occurs during the auto-inspection.	Contact Inovance for technical support.	Rectify the fault.
Stop during auto-inspection.	Check whether a stop occurs during auto-inspection.	Reset the fault.

59-1：Excessively low phase U module temperature

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The phase U temperature (U7-09) is lower than the low temperature threshold (A4-22).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is too low.	Check whether the temperature sampling circuit is connected properly.	Increase the ambient temperature (turn on the air conditioner or heater).
The temperature sampling circuit is connected improperly.	Check whether the ambient temperature where the inverter is installed is lower than the temperature defined by [A4-22].	Check whether the temperature sampling circuit is connected properly. If not, rectify the fault.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The low temperature alarm threshold (A4-22) is too high.	Check whether the value of A4-22 is too high.	Set the low temperature detection threshold (A4-22) properly.

59-2: Phase V module temperature too low

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited

torque

6: Display alarm only

Cause:

The detected phase V temperature (U7-10) is lower than the low temperature threshold (A4-22).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is too low.	Check whether the temperature sampling circuit is connected properly.	Increase the ambient temperature (turn on the air conditioner or heater).
The temperature sampling circuit is connected improperly.	Check whether the ambient temperature where the inverter is installed is lower than the temperature defined by [A4-22].	Check whether the temperature sampling circuit is connected properly. If not, rectify the fault.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The low temperature alarm threshold (A4-22) is too high.	Check whether the value of A4-22 is too high.	Set the low temperature detection threshold (A4-22) properly.

59-3：Phase-W module temperature too low

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop

1: Emergency stop

2: Stop in normal stop mode

3: Operated at limited current

4: Operated at limited speed

5: Operated at limited torque

6: Display alarm only

Cause:

The detected phase-W temperature (U7-11) is lower than the low temperature threshold (A4-22).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is too low.	Check whether the temperature sampling circuit is connected properly.	Increase the ambient temperature (turn on the air conditioner or heater).

The temperature sampling circuit is connected improperly.	Check whether the ambient temperature where the inverter is installed is lower than the temperature defined by [A4-22].	Check whether the temperature sampling circuit is connected properly. If not, rectify the fault.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The low temperature alarm threshold (A4-22) is too high.	Check whether the value of A4-22 is too high.	Set the low temperature detection threshold (A4-22) properly.

59-4：Rectifier module temperature too low

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The rectifier detection temperature (U5-09) of HE200 or HE300 series inverter models is lower than the low temperature fault detection threshold (A4-22).

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is too low.	Check whether the temperature sampling circuit is connected properly.	Increase the ambient temperature (turn on the air conditioner or heater).
The temperature sampling circuit is connected improperly.	Check whether the ambient temperature of the rectifier unit is lower than [A4-22].	Check whether the temperature sampling circuit is connected properly. If not, rectify the fault.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The low temperature alarm threshold (A4-22) is too high.	Check whether the value of A4-22 is too high.	Set the low temperature detection threshold (A4-22) properly.

60-1：Ambient temperature too high

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：6: Display alarm only

Cause:

This fault occurs when the ambient temperature of the inverter chamber of HE200/HE300 models is higher than 65°C.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature where the inverter is installed is higher than the temperature defined by [A4-34].	Lower down the ambient temperature.
The fan is damaged.	Check whether the fan is damaged.	Replace the damaged fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.

61-1：Speed tracking current too large

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The output current is 1.8 times larger than the rated motor current during speed tracking.

Troubleshooting:

Cause	Check method	Solution
Flying start is executed immediately after stop, resulting in operation error due to residual magnetism.	Check whether the flying start is executed immediately after stop. Increase the demagnetization time (E1-13) properly to check whether the fault can be reset.	Increase the demagnetization time E1-13 properly.
Motor parameters are not auto-tuned.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Perform motor parameter auto-tuning again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

61-2：Speed tracking time too long

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The speed tracking process time exceeds E7-04 but speed tracking has not been completed.

Troubleshooting:

Cause	Check method	Solution
The set speed tracking time is short.	Check whether the value of E7-04 (Speed tracking time) is low.	Increase the value of E7-04 (Speed tracking time).
Set motor parameters properly.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor basic parameters correctly and perform motor parameter auto-tuning again.
Speed tracking errors occur.	Contact Inovance for technical support.	Contact Inovance for technical support.

61-5：HSVM card not connected or not enabled

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The HSVM card is not enabled or the HSVM optical fiber is not connected when HSVM is used for synchronous motor speed tracking in SVC mode.

Troubleshooting:

Cause	Check method	Solution
The HSVM card is not enabled or connected when HSVM is used for synchronous motor speed tracking in SVC mode.	Check whether the synchronous voltage sampling card is connected.	Install and enable the HSVM card properly.

63-1：External alarm 1

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level： 6: Display alarm only

Cause:

The external alarm 1 (A63-1) is triggered when [H0-02] is set to 1.

Troubleshooting:

Cause	Check method	Solution
The setting source of H0-02 is active.	Check whether H0-02 [External alarm 1 source] is active.	Check whether the setting source is active.
H0-02 is set improperly.	Check whether H0-02 (External alarm 1 source) is set incorrectly, for example, H0-02 is set to 1.	1. Set H0-02 to 0. 2. Set H0-02 correctly.

63-2：External alarm 2

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The external alarm 2 (A63-2) is triggered when [H0-03] is set to 1.

Troubleshooting:

Cause	Check method	Solution
The setting source of H0-03 is active.	Check whether H0-03 [External alarm 1 source] is active.	Check whether the setting source is active.
H0-03 is set improperly.	Check whether H0-03 (External alarm 1 source) is set incorrectly, for example, H0-03 is set to 1.	1. Set H0-03 to 0. 2. Set H0-03 correctly.

63-3：Motor overtemperature alarm

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The motor temperature exceeds the protection setpoint defined by E8-24.

Troubleshooting:

Cause	Check method	Solution
The cooling fan of the motor is	Check whether the cooling fan and air	Check whether the cooling fan and air

stalled or abnormal.	outlet of the motor are abnormal.	outlet of the motor are abnormal. If yes, replace the cooling fan and clean the air outlet.
The motor is overloaded.	Check whether the motor is in overload state for a long time.	Avoid long-term overload operation of the motor. If not possible, contact technical support.
The temperature detection circuit is abnormal.	Check the wiring of the temperature detection circuit.	Check the wiring of the temperature detection circuit.
The motor temperature detection mode [E8-22] is set incorrectly.	Check whether E8-22 (Motor temperature detection mode) is set correctly. 1. Check the signal source: PG card or AI terminal. 2. Check whether the sensor type is selected correctly.	Re-check motor temperature detection mode: 1. Check the signal source: PG card or AI terminal. 2. Check whether the sensor type is selected correctly.
The motor overtemperature alarm threshold [E8-24] is set improperly.	Re-check whether the motor overtemperature protection threshold (E8-24) is set to an excessively low value.	Check whether the motor overtemperature protection threshold is set to excessively low value.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

63-4：OFF2/OFF3 stop

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

If the control word OFF2 is activated (OFF2 = 0) or OFF3 is activated (OFF3 = 0), the OFF2/OFF3 activation alarm (A64-3) can be triggered.

Troubleshooting:

Cause	Check method	Solution
When the control channel is used to send start/stop commands, OFF2 or OFF3 of the selected control channel is activated.	Check whether OFF2 or OFF3 is activated in the start/stop control word and other control words.	Check whether OFF2 or OFF3 is activated in the start/stop control word and other control words.
Among the other control words of the control channel selected, OFF2 source2, OFF2 source3, OFF3 source2, or OFF3 source3 is activated.	Among the other control words of the control channel selected, check whether OFF2 source2, OFF2 source3, OFF3 source2, or OFF3 source3 is activated.	Among the other control words of the control channel selected, check whether OFF2 source2, OFF2 source3, OFF3 source2, or OFF3 source3 is activated.

OFF2 or OFF3 on the control panel of the InoDriveStudio are not checked.	Check whether OFF2 on the control panel of the InoDriveStudio are not checked.	Check OFF2 and OFF3 on the control panel of InoDriveStudio.

64-1：Pre-charge failure 1

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The bus voltage is excessively low when the state machine performs S6 pre-charging during start.

Troubleshooting:

Cause	Check method	Solution
The DC bus is not powered on or the voltage is low.	Check whether the DC bus voltage is too low or the DC bus is not powered on.	Increase the DC bus voltage to a value within the normal range.
The drive voltage is improper.	Check whether the voltage class of the drive is incorrect.	Select a drive model with the proper voltage class.
The drive model is incorrect.	Contact Inovance for technical support.	Contact Inovance for technical support.
The drive is started before the DC bus voltage buffering completes.	Start the drive after the DC bus voltage is normal and check whether the fault occurs again.	Start the drive after the DC bus voltage is normal.
The correction factor of the DC bus voltage is set improperly.	Check that the DC voltage sampling gain (A3-09) is set properly.	Set the DC voltage sampling gain properly.
The pre-charge resistor, drive board, or control board is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The displayed DC bus voltage is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.

64-2：Pre-charge failure 2

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The bus voltage is normal when the state machine performs S6 pre-charging during start, but the HINT is not

ready.

Troubleshooting:

Cause	Check method	Solution
The interface board is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.

65-1：Restoring-to-default interrupted due to error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

During parameter reset or fault log reset, if the operation is interrupted due to power failure or other reasons, F65-1-1 can be reported at next power-on. After the fault is triggered, perform parameter group to rectify the fault.

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Troubleshooting:

Cause	Check method	Solution
Power failure occurs during parameter reset or fault log reset.	Perform parameter reset to check whether the fault is rectified.	Perform parameter reset to rectify the fault.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

65-2：Parameter downloading interrupted (restoration from the SD card)

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The attempt to download parameters fails due to power failure of HCU or SD card error. The fault F65-2 is triggered at next power-on.

Troubleshooting:

Cause	Check method	Solution
The controller power supply fails unexpectedly during parameter download.	After power-on again, perform parameter download to check whether the fault is cleared.	Find the cause of power failure, and perform parameter download after power-on again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

65-3：Parameter cache capacity exceeded

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A large number of parameters are saved to the EEPROM, leading to insufficient parameter cache capacity.

Troubleshooting:

Cause	Check method	Solution
A massive number of parameters are being written.	Reduce the repetitive write operation and check whether the fault is cleared.	Do not write parameters repetitively.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

65-4：Parameter-storage timeout during parameter download

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Parameter-saving times out during parameter download.

Troubleshooting:

Cause	Check method	Solution
SD card error	Replace the SD card to check whether the fault is cleared.	Replace the SD card.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

66-2：Excessive leakage current (software detection)

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The leakage current detected by the software is higher than the leakage current detection threshold set by E8-12.

Troubleshooting:

Cause	Check method	Solution
The leakage current detection threshold (E8-12) is too low.	Check whether the leakage current detection threshold (E8-12) is set to an excessively low value.	Set the leakage current detection threshold (E8-12) properly.
The positive/negative end of the bus is grounded improperly.	Check whether the positive and negative end of the bus are grounded properly.	Check whether the positive and negative end of the bus are grounded properly.
Current detection circuit is abnormal.	Check whether the current detection circuit is normal.	Check whether the current detection circuit is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-1：External bus timeout

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An external bus communication interruption is detected and process data is not received. A fault will be reported when the communication is disconnected, and an alarm will be issued when the communication is not connected.

Troubleshooting:

Cause	Check method	Solution
External bus disconnected	1. Check whether the circuit is disconnected or the connection is improper. 2. Check whether the master PLC operates properly.	1. Ensure that the external bus is connected reliably. 2. Ensure that the master PLC is working properly.
The wiring is incorrect.	1. Check whether the wiring on the reception and transmission sides is normal. 2. Check whether the connector is crimped properly. 3. Check whether the positive/negative polarity of the circuit is correct.	Ensure that the wiring is correct.
Termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.
Check bit error occurs during PROFIBUS-DP communication.	Check whether n16-10 [DP data check bit] is set correctly.	Set the DP data check bit [n16-10] properly.
Parameters are set improperly.	1. Check whether the communication baud rate is inconsistent. 2. Check whether the communication station number is incorrect or repetitive.	Ensure that the communication baud rates of the master and slave are the same and that the communication station number is set properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-2：Incorrect communication parameter setting

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited

current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Communication parameters (address or baud rate) of adapter A are set improperly.

Troubleshooting:

Cause	Check method	Solution
The station number or baud rate is set incorrectly.	Check whether the station number or baud rate is set incorrectly.	Correct the baud rate and station number.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-3：Bus address conflict of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Repetitive slave addresses exist in adapter A.

Troubleshooting:

Cause	Check method	Solution
The slave addresses conflict.	Check the slave address.	Set the slave addresses again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-4：PZD1 data CRC error for DP communication of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

A PZD1 data CRC error occurs during DP communication of adapter A.

Troubleshooting:

Cause	Check method	Solution
The check bit (n16-10) of input PZD1 is set improperly.	Check the PZD1 data check setting during DP communication of adapter C.	Set the check bit for input PZD1 properly.
The host controller does not send the PZD1 check bit normally.	Check the host controller program and check whether the data check bit of PZD1 is normal.	Correct the host controller program to ensure that the PZD1 check bit is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-5：EtherNet/IP Ethernet hardware error of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current

4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An EtherNet/IP hardware error occurs on adapter A.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-7：EtherCAT EEPROM loading error of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The EtherCAT card encounters an EEPROM loading error.

Troubleshooting:

Cause	Check method	Solution
The EtherCAT card encounters an EEPROM loading error.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-8：Communication card initialization error of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

A communication card initialization error of adapter A is detected.

Troubleshooting:

Cause	Check method	Solution
Communication initialization parameters are set improperly.	Contact Inovance for technical support.	Set the baud rate and station number properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-9：EtherCAT master switchover error of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited

torque

6: Display alarm only

Cause:

EtherCAT master switchover error of adapter A is detected.

Troubleshooting:

Cause	Check method	Solution
A master status switchover error occurs.	Check the master and slave communication configuration.	Configure master/slave communication correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-10：Adapter A sync signal error

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop

1: Emergency stop

2: Stop in normal stop mode

3: Operated at limited current

4: Operated at limited speed

5: Operated at limited torque

6: Display alarm only

Cause:

n4-00 and n5-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The sync signal loss exceeds the limit.	Check the real-time capability of the master. Check the communication network to reduce interference.	Set n4-00 and n5-00 properly. Contact the technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-11：Adapter A PDI synchronization signal error

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The number of sync signal loss events exceeds the limit.

Troubleshooting:

Cause	Check method	Solution
The number of sync signal loss events exceeds the limit.	Check the real-time capability of the master. Check the communication network to reduce interference.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-12：Adapter A Ethernet/IP not programmed with MAC

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited

speed
5: Operated at limited torque
6: Display alarm only

Cause:

Adapter A Ethernet/IP not programmed with MAC

Troubleshooting:

Cause	Check method	Solution
Adapter A Ethernet/IP not programmed with MAC	Contact Inovance for technical support.	Contact Inovance for technical support.

67-13：Ethernet/IP conflict of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Ethernet/IP conflict of adapter A

Troubleshooting:

Cause	Check method	Solution
Ethernet/IP conflict of adapter A	Check Ethernet/IP conflict of adapter A.	Set the EtherNet/IP IP of adapter A properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-14：Ethernet/IP LINK loss of adapter A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The Ethernet/IP LINK of adapter A is lost.

Troubleshooting:

Cause	Check method	Solution
The Ethernet/IP LINK of adapter A is lost.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-15: CRC error in data received by the communication card

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The number of CRC errors in data received by the bus adapter reaches the value of n1-03.

Troubleshooting:

Cause	Check method	Solution
Interference exists in the circuit.	1. Check whether the wiring and shield meet the requirements. 2. Increase the value of n1-03 properly to check whether the fault is rectified.	1. Ensure that the wiring is correct and the shield is grounded properly. 2. Increase the value of n1-03 properly.
The termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

67-16：CRC error in data transmitted by the communication card

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The number of CRC errors in data received by the bus adapter reaches the value of n1-03.

Troubleshooting:

Cause	Check method	Solution
Interference exists in the circuit.	Check that shield and wiring comply with the requirements.	1. Ensure that the wiring is correct and the shield is grounded properly. 2. Eliminate external interference source.
n1-03 is set to an excessively low	Increase the value of n1-03 properly to	Set n1-03 properly.

value.	check whether the fault is cleared.	
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-1：External bus timeout

Default fault level： 0: Coast to stop

Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An external bus communication interruption is detected and process data is not received. A fault will be reported when the communication is disconnected, and an alarm will be issued when the communication is not connected.

Troubleshooting:

Cause	Check method	Solution
External bus disconnected	1. Check whether the circuit is disconnected or connected improperly. 2. Check whether the PLC of the master works properly.	1. Ensure that the external bus is connected reliably. 2. Ensure that the master PLC is working properly.
The wiring is incorrect.	1. Check whether the wiring on the reception and transmission sides is normal. 2. Check whether the connector is crimped properly. 3. Check whether the positive/negative polarity of the circuit is correct.	Ensure that the wiring is correct.
Termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.

Check bit error occurs during PROFIBUS-DP communication.	Check whether n16-10 [DP data check bit] is set correctly.	Set the DP data check bit [n16-10] properly.
Parameters are set improperly.	1. Check whether the communication baud rate is inconsistent. 2. Check whether the communication station number is incorrect or repetitive.	Ensure that the communication baud rates of the master and slave are the same and that the communication station number is set properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-2：Incorrect communication parameter setting

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Communication parameters of the adapter B (address or baud rate) are set improperly.

Troubleshooting:

Cause	Check method	Solution
The station number or baud rate is set incorrectly.	Check whether the station number or baud rate is set incorrectly.	Set the baud rate and station number properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-3：Bus address conflict of adapter B

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Repetitive slave addresses exist in adapter B.

Troubleshooting:

Cause	Check method	Solution
The slave addresses conflict.	Check the slave address.	Set the slave addresses again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-4: PZD1 data check error of adapter B DP communication

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

PZD1 data check error occurs during DP communication of adapter B.

Troubleshooting:

Cause	Check method	Solution
The check bit (n16-10) of input PZD1 is set improperly.	Check the PZD1 data check setting during DP communication of adapter C.	Set the check bit of input PZD1 properly.
The host controller does not send the PZD1 check bit properly.	Check the host controller program and check whether the data check bit of PZD1 is normal.	Correct the host controller program to ensure that the PZD1 check bit is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-5：Adapter B Ethernet/IP hardware error

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

An Ethernet/IP hardware error occurs on the adapter B.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-7：EtherCAT EEPROM loading error of adapter B

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop

2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The EtherCAT card encounters an EEPROM loading error.

Troubleshooting:

Cause	Check method	Solution
The EtherCAT card encounters an EEPROM loading error.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-8：Communication card initialization error of adapter B

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

A communication card initialization error of adapter B is detected.

Troubleshooting:

Cause	Check method	Solution

Communication initialization parameters are set improperly.	Contact Inovance for technical support.	Set the baud rate and station number properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-9：EtherCAT master switchover error of adapter B

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

EtherCAT master switchover error of adapter B is detected.

Troubleshooting:

Cause	Check method	Solution
A master status switchover error occurs.	Check the master and slave communication configuration.	Configure master/slave communication correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-10：Adapter B sync signal exception

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n4-00 and n5-00 expansion slots are the same.

Troubleshooting:

Cause	Check method	Solution
The number of synchronization signal loss events exceeds the limit.	Check the real-time capability of the master. Check the communication network to reduce interference.	Set n4-00 and n5-00 properly. Contact the technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-11：Adapter B PDI sync signal error

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The number of sync signal loss events exceeds the limit.

Troubleshooting:

Cause	Check method	Solution

The number of sync signal loss events exceeds the limit.	Check the real-time capability of the master. Check the communication network to reduce interference.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-12：Adapter B Ethernet/IP not programmed with MAC

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Adapter B Ethernet/IP not programmed with MAC

Troubleshooting:

Cause	Check method	Solution
Adapter B Ethernet/IP not programmed with MAC	Contact Inovance for technical support.	Contact Inovance for technical support.

68-13：Adapter B Ethernet/IP conflict

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Adapter B Ethernet/IP conflict

Troubleshooting:

Cause	Check method	Solution
Adapter B Ethernet/IP conflict	Check the IP of EtherNet/IP of adapter B.	Set the IP of EtherNet/IP of adapter B properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-14：Adapter B Ethernet/IP LINK lost

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Adapter B Ethernet/IP LINK is lost.

Troubleshooting:

Cause	Check method	Solution
Adapter B Ethernet/IP LINK is lost.	Contact Inovance for technical support.	Contact Inovance for technical support.

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-15：CRC error in data received by the communication card

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The number of CRC errors in data received by the bus adapter reaches the value of n2-03.

Troubleshooting:

Cause	Check method	Solution
Interference exists in the circuit.	Check that shield and wiring comply with the requirements.	1. Ensure that the wiring is correct and the shield is grounded properly. 2. Eliminate external interference source.
n2-03 is set to an excessively low value.	Increase the value of n2-03 properly to check whether the fault is cleared.	Set n2-03 properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

68-16：CRC error in data transmitted by the communication card

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop

mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The number of CRC errors in data transmitted by the bus adapter reaches the value of n2-03.

Troubleshooting:

Cause	Check method	Solution
Interference exists in the circuit.	Check that shield and wiring comply with the requirements.	1. Ensure that the wiring is correct and the shield is grounded properly. 2. Eliminate external interference source.
n2-03 is set to an excessively low value.	Increase the value of n2-03 properly to check whether the fault is cleared.	Set n2-03 properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-1：External bus timeout

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

An external bus communication interruption is detected and process data is not received. A fault will be reported when the communication is disconnected, and an alarm will be issued when the communication is not connected.

Troubleshooting:

Cause	Check method	Solution
The external bus is disconnected.	1. Check whether the circuit is disconnected or connected improperly. 2. Check whether the PLC of the master works properly.	1. Ensure that the external bus is connected reliably. 2. Ensure that the master PLC is working properly.
The wiring is incorrect.	1. Check whether the wiring on the reception and transmission sides is normal. 2. Check whether the	Ensure that the wiring is correct.

	connector is crimped properly. 3. Check whether the positive/negative polarity of the circuit is correct.	
Termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.
Check bit error occurs during PROFIBUS-DP communication.	Check whether n16-10 [DP data check bit] is set correctly.	Set the DP data check bit [n16-10] properly.
Parameters are set improperly.	1. Check whether the communication baud rate is inconsistent. 2. Check whether the communication station number is incorrect or repetitive.	Ensure that the communication baud rates of the master and slave are the same and that the communication station number is set properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-2：Incorrect communication parameter setting

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The station number or baud rate is set incorrectly.

Troubleshooting:

Cause	Check method	Solution
The station number or baud rate is set incorrectly.	Check whether the station number or baud rate is set incorrectly.	Set the baud rate and station number properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-3：Bus address conflict of adapter C

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop

mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Repetitive slave addresses exist.

Troubleshooting:

Cause	Check method	Solution
The slave addresses conflict.	Check the slave address.	Set the slave addresses again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-4：PZD1 data CRC error for DP communication of adapter C

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

n16-10 (input PZD1 check bit) is set improperly or the host controller fails to send the PZD1 check bit properly.

Troubleshooting:

Cause	Check method	Solution
The check bit (n16-10) of input PZD1 is set improperly.	Check the PZD1 data check setting during DP communication of adapter C.	Set the check bit of input PZD1 properly.

The host controller does not send the PZD1 check bit properly.	Check the host controller program and check whether the data check bit of PZD1 is normal.	Correct the host controller program to ensure that the PZD1 check bit is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-7：EtherCAT EEPROM loading error of adapter C

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The EtherCAT card encounters an EEPROM loading error.

Troubleshooting:

Cause	Check method	Solution
The EtherCAT card encounters an EEPROM loading error.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-8：Communication card initialization error of adapter C

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop

mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

A communication card initialization error of adapter C is detected.

Troubleshooting:

Cause	Check method	Solution
Communication initialization parameters are set improperly.	Contact Inovance for technical support.	Set the baud rate and station number properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-9：EtherCAT master switchover error of adapter C

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

EtherCAT master switchover error of adapter C is detected.

Troubleshooting:

Cause	Check method	Solution
A master status switchover error	Check the master and slave	Configure master/slave communication

occurs.	communication configuration.	correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-15：CRC error in data received by the communication card

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The number of CRC errors in data received by the bus adapter reaches the threshold.

Troubleshooting:

Cause	Check method	Solution
Interference exists in the circuit.	Check that shield and wiring comply with the requirements.	1. Ensure that the wiring is correct and the shield is grounded properly. 2. Eliminate external interference source.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

69-16：CRC error in data transmitted by the communication card

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The number of CRC errors in data transmitted by the bus adapter reaches the threshold.

Troubleshooting:

Cause	Check method	Solution
Interference exists in the circuit.	Check that shield and wiring comply with the requirements.	1. Ensure that the wiring is correct and the shield is grounded properly. 2. Eliminate external interference source.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

70-1：Incorrect HE inverter fan phase sequence

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The HE200 or HE300 series models monitor whether the fan phase sequence is abnormal based on the DI signal status returned by the fan phase sequence before the equipment operates.

Troubleshooting:

Cause	Check method	Solution
The phase sequence of the fan is incorrect.	Check that the fan phase sequence is correct.	Re-adjust wiring of the phase sequence of the fan.
An error or phase loss occurs on the phase sequence detection circuit.	Check whether the input power supply of the phase sequence detector is excessively low or phase loss occurs.	Ensure that the input power of the phase sequence detector is normal.
The fan phase sequence detector is damaged.	Check whether the fan phase sequence detector is damaged.	Replace the fan phase sequence detector.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

70-2: HE inverter fan overheated

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current

4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

If the HE200 or HE300 series models receive DI feedback signals that indicate the fan operates improperly, the drive reports F70-2 (Inverter fan status error).

Troubleshooting:

Cause	Check method	Solution
Fan overtemperature	1. Check whether the fan is blocked. 2. Check whether the phase loss occurs on the fan.	1. Check whether the fan is blocked. 2. Check whether the phase loss occurs on the fan.
The DI feedback circuit is abnormal.	Check whether the fan feedback DI signal is loose or disconnected.	Check whether the fan feedback DI signal is loose or disconnected.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

71-1：Rectifier braking auto-inspection error

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

This fault is triggered during auto-inspection of the rectifier braking unit, which is usually caused by improper resistance of the braking resistor.

Troubleshooting:

Cause	Check method	Solution
The braking resistance is too large or small.	Check whether the braking resistor is proper. Check whether the braking resistor is connected properly.	Select a proper braking resistor based on the operating conditions.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

72-1：Pre-charge timeout

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The bus voltage does not reach the set value after the slow-start period.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

72-2：Pre-charge timeout of the basic rectifier module

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The bus voltage of 400 V system or 690 V system does not reach 350 V or 600 V five seconds after soft start.

Troubleshooting:

Cause	Check method	Solution
The bus voltage of 400 V system or 690 V system does not reach 350 V or 600 V five seconds after soft start.	Check whether the main contactor feedback signal is normal.	Ensure that the main contactor feedback signal is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

72-4：Rectifier unit not started

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The power-on state of the rectifier unit 1/unit 2 in the HE series models is inconsistent within 1s when [A14-36] is set to 1 (Paralleled rectifier mode).

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

73-1：Main breaker feedback error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The main breaker feedback state does not match the control signal.

Troubleshooting:

Cause	Check method	Solution
The main breaker feedback state does not match the control signal.	Check whether the main breaker feedback state matches the control signal.	Contact Inovance for technical support.

73-2：Power board undervoltage (HE200-D2)

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Undervoltage occurs on the power board.

Troubleshooting:

Cause	Check method	Solution

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

73-3：Pre-charge contactor feedback error (single-drive)

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The feedback signal of the single-drive pre-charge contactor is abnormal.

Troubleshooting:

Cause	Check method	Solution
The feedback signal of the single-drive pre-charge contactor is abnormal.	Check whether the auxiliary contactor feedback signal is connected properly.	Ensure that the auxiliary contactor feedback signal is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

73-4：Rectifier bridge error (single-drive)

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The pre-charge resistor is overloaded due to the rectifier bridge fault.

Troubleshooting:

Cause	Check method	Solution
The pre-charge resistor is overloaded due to the rectifier bridge fault.	Check whether the rectifier bridge is triggered normally.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

74-1：Braking transistor overcurrent

Default fault　0: Coast to stop　　Reset method： Manual reset

level:

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The braking current is too large during braking.

Troubleshooting:

Cause	Check method	Solution
The braking current is too large during braking.	Check whether the braking resistor is proper. Check whether the braking side is short-circuited.	Ensure that the braking resistor selected is proper. Ensure that the braking side is not short-circuited.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

74-2: Braking transistor overtemperature

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque

6: Display alarm only

Cause:

If HE200 or HE300 series rectifier models are configured with a braking unit, the system detects that the brake transistor temperature is higher than 95°C.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The braking action is performed frequently.	Check whether braking action is performed frequently.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

74-3：Braking IGBT-Vce fault

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The braking IGBT is damaged or the braking resistor is short-circuited.

Troubleshooting:

Cause	Check method	Solution
The braking IGBT is damaged or the braking resistor is short-circuited.	1. Check whether the brake resistor circuit is abnormal. 2. Check the braking IGBT.	Ensure that the braking resistor circuit is normal (short circuit/open circuit). Ensure that the braking IGBT is not faulty.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

74-4：Braking IGBT shoot through

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The braking IGBT is damaged or the braking resistor is short-circuited.

Troubleshooting:

Cause	Check method	Solution
The braking IGBT is damaged or the braking resistor is short-circuited.	1. Check whether the braking transistor is damaged. 2. Check whether the braking IGBT is short-circuited.	Ensure that the brake transistor is not damaged. Ensure that the braking IGBT is not short-circuited.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

74-5：Temperature of the braking transistor temperature too low or NTC disconnected

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

If the HE200 or HE300 models are configured with a braking unit, the system detects that the brake transistor temperature is lower than the value defined by A4-22.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is too low.	Check whether the ambient temperature is too low.	Increase the ambient temperature (turn on the air conditioner or heater).
The temperature sampling circuit is connected improperly.	Check whether the temperature sampling circuit is connected properly.	Check whether the temperature sampling circuit is connected properly. If not, rectify the fault.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The low temperature alarm threshold (A4-22) is too high.	Check whether the low temperature alarm threshold (A4-22) is too high.	Set the low temperature alarm threshold (A4-22) properly.

75-1: Rectifier fan error

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 6: Display alarm only

Cause:

If the HE200 or HE300 models detect that the temperature switch signal fed back by the reactor is disconnected for 1s, A77-1 is reported as the reactor overtemperature alarm.

Troubleshooting:

Cause	Check method	Solution

The phase sequence of the fan is incorrect.	Check that the fan phase sequence is correct.	Re-adjust wiring of the phase sequence of the fan.
An error or phase loss occurs on the phase sequence detection circuit.	Check whether the input power supply of the phase sequence detector is excessively low or phase loss occurs.	Ensure that the input power of the phase sequence detector is normal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

76-1：Module 1 overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected temperature of phase R of the diode rectifier module of HE200/HE300 series models exceeds the overtemperature threshold of 95°C.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

76-2：Module 2 overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected temperature of phase S of the diode rectifier module of the HE200/HE300 series models exceeds the overtemperature threshold of 95°C.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

76-3：Module 3 overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected temperature of phase T of the diode rectifier module of the HE200/HE300 series models exceeds the overtemperature threshold of 95°C.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the	Contact Inovance for technical support.	Contact Inovance for technical support.

fault.		

76-4：Module 1 temperature too low or not connected to the NTC

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected temperature of phase R of the diode rectifier module of the HE200/HE300 series models is lower than the value of A4-22.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

76-5：Module 2 temperature too low or not connected to the NTC

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected temperature of phase S of the diode rectifier module of the HE200/HE300 series models is lower than the value of A4-22.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature

		does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

76-6：Module 3 temperature too low or not connected to the NTC

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The detected temperature of phase T of the diode rectifier module of the HE200/HE300 series models is lower than the value of A4-22.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is high.	Check whether the ambient temperature is too high.	Reduce the ambient temperature to ensure that the air inlet temperature does not exceed 40°C.
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is operating abnormally. 1. The fan stops operating or the speed is low. 2. The power supply board of the fan is abnormal.	Check whether the fan is faulty or whether the power supply of the fan is normal.	1. Replace the fan. 2. Replace the power supply board of the fan.
The thermistor is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

77-1：Reactor overtemperature

Default fault　0: Coast to stop　　Reset method： Manual reset

level：

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

This alarm is triggered when the HE200 or HE300 models detect that the temperature switch signal fed back by the reactor is disconnected for 1s.

Troubleshooting:

Cause	Check method	Solution
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The fan is damaged.	Check whether the fan is faulty or whether the power supply of the fan is normal.	Replace the damaged fan.
The temperature detection circuit or temperature switch is abnormal.	Check the temperature detection circuit or replace the temperature switch.	Replace the temperature detection circuit or the temperature switch.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

77-4：Inverter cabinet reactor overtemperature

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited

speed
5: Operated at limited torque
6: Display alarm only

Cause:

When the output reactor is equipped with a temperature detection switch (A2-54 = 1) in the standard cabinet, the source of b6-04 is set to HDI1 forcibly, and HDI1 is 0.

Troubleshooting:

Cause	Check method	Solution
The overtemperature detection point signal configured by b6-04 is not available. When the output reactor is equipped with a temperature detection switch (A3-54 = 1) in the standard cabinet, the source of b6-04 is set to and HDI1.	1. Check whether the temperature switch signal is connected properly. 2. Check whether the ambient temperature exceeds 40°C.	1. Ensure that the temperature switch signal is connected correctly. 2. The ambient temperature is too high. Reduce the ambient temperature.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

77-7：Internal current-balancing reactor overtemperature

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The actual temperature of the internal current-balancing reactor is high.

Troubleshooting:

Cause	Check method	Solution
The actual temperature of the internal current-balancing reactor is high. Heat dissipation of the internal current-balancing reactor is abnormal.	Check whether the temperature switch of the internal current-balancing reactor inside the cabinet is disconnected or abnormal.	1. Take proper heat dissipation measures inside the cabinet. 2. Contact technical support engineers of Inovance.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

78-1：High temperature

Default fault level： 6: Display alarm only　　Reset method： Manual reset

Fault level： 6: Display alarm only

Cause:

The temperature of the capacitor box in the rectifier cabinet of the HE200 model exceeds the set overtemperature threshold of 65°C.

Troubleshooting:

Cause	Check method	Solution
The load is too heavy.	Check whether the load is too heavy.	Reduce the load.
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan is damaged.	Check whether the fan is faulty or whether the power supply of the fan is normal.	Replace the damaged fan.
The temperature detection circuit is abnormal.	Check whether the temperature detection circuit is faulty.	Replace the temperature detection circuit.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

78-2：Low temperature or NTC not connected

Default fault level： 6: Display alarm only　　Reset method： Manual reset

Fault level： 6: Display alarm only

Cause:

The temperature of the capacitor box in the rectifier cabinet of HE200 models is lower than the value defined by A4-22.

Troubleshooting:

Cause	Check method	Solution
The ambient temperature is too low.	Check whether the ambient temperature is too low.	Increase the ambient temperature.
The temperature detection circuit is abnormal.	Check whether the temperature detection circuit is faulty.	Replace the temperature detection circuit.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

79-2：High voltage

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

Hardware overvoltage signal is triggered when the bus voltage is higher than the overvoltage threshold of HE series models (820 V for 400 V models and 1230 V for 690 V models).

Troubleshooting:

Cause	Check method	Solution
Check whether the input voltage is excessively high.	Check whether the input voltage is excessively high.	Lower the input voltage.
Under power generation conditions, no braking unit is installed or the braking resistor model is inappropriate.	Check whether the braking unit is installed or the braking resistor model is improper.	Install a braking unit or select a proper braking resistor.
The drive voltage is improper.	Ensure that the voltage class of the drive matches the motor.	Select a drive model with the proper voltage class.
The drive model is incorrect.	Contact Inovance for technical support.	Contact Inovance for technical support.
The overvoltage suppression parameter is set improperly.	1. In V/f control mode, check whether overvoltage suppression (E3-30) is enabled and whether E3-31 to E3-35 are set properly. 2. In vector control mode, check whether E9-01 is enabled and whether E9-02 is set to an excessively high value.	1. In V/f control mode, check whether overvoltage suppression (E3-30) is enabled and whether E3-31 to E3-35 are set properly. 2. In vector control mode, check whether E9-01 is enabled and whether E9-02 is set to an excessively high value.
The correction factor of the DC bus voltage is set improperly.	Check that the DC voltage sampling gain (A3-09) is set properly.	Set the DC voltage sampling gain properly.
In the vector control mode, speed loop parameters are set	Check whether the actual motor speed overshoot is large during acceleration	8. Use the IDS to check whether the overshoot of actual motor speed

improperly.	through IDS.	during acceleration is large and generating overvoltage is caused during speed callback. Set the speed loop parameters properly to reduce the overshoot.
Other causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

79-3：Low voltage

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The HINT board determines that the DC bus voltage is lower than the undervoltage threshold (350 V for 380 V models and 540 V for 690 V models).

Troubleshooting:

Cause	Check method	Solution
The input voltage is too low.	Check whether the input voltage is excessively low.	Adjust the voltage until it is within the normal range.
The voltage class of the drive is improper.	Ensure that the voltage class of the drive matches the motor.	Select a drive model with the proper voltage class.
The drive model is incorrect.	Contact Inovance for technical support.	Contact Inovance for technical support.
The undervoltage suppression parameter is set improperly.	Check whether E9-03 is enabled and whether E9-04 to E9-06 are set properly.	Check whether E9-03 is enabled and whether E9-04 to E9-06 are set properly.
The correction factor of the DC bus voltage is set improperly.	Check that the DC voltage sampling gain (A3-09) is set properly.	Set the DC voltage sampling gain properly.
The pre-charge resistor, drive board, or control board is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.
The displayed DC bus voltage is abnormal.	Contact Inovance for technical support.	Contact Inovance for technical support.

80-1：Rectifier unit 1 offline

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level： 0: Coast to stop

Cause:

If the rectifier unit 1 of HE200 series is activated by A14-36, but the expansion card is connected improperly or the expansion slot number is set incorrectly, F80-1 will be reported.

Troubleshooting:

Cause	Check method	Solution
The card slot is incorrect.	Check whether the expansion card slot of A14-37 (Rectifier unit 1) is selected correctly.	Check whether the expansion card slot of A14-37 (Rectifier unit 1) is selected correctly.
The rectifier HINT is not powered on.	Check the HINT power supply circuit of the rectifier.	Replace the HINT power supply circuit of the rectifier.
The optical fiber is connected improperly.	Check the optical fiber connection circuit.	Change the optical fiber connection circuit.
The optical fiber is damaged.	Check whether the optical fiber is damaged.	Replace the optical fiber.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

80-2：Rectifier unit 2 offline

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

If the rectifier unit 2 of HE200 series is activated by A14-36, but the expansion card is connected improperly or the expansion slot number is set incorrectly, F80-2 will be reported.

Troubleshooting:

Cause	Check method	Solution
The card slot is incorrect.	Check whether the expansion card slot of A14-38 (Rectifier unit 2) is selected correctly.	Check whether the expansion card slot of A14-38 (Rectifier unit 2) is selected correctly.
The rectifier HINT is not powered on.	Check the HINT power supply circuit of the rectifier.	Replace the HINT power supply circuit of the rectifier.
The optical fiber is connected improperly.	Check the optical fiber connection circuit.	Change the optical fiber connection circuit.
The optical fiber is damaged.	Check whether the optical fiber is damaged.	Replace the optical fiber.
Other causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

80-3：Extension card setting conflict of rectifier units

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Rectifier units 1 and 2 of HE200 series are activated through A14-36, but the expansion card slot setting of A14-37 conflicts with A14-38, leading to fault F80-3.

Troubleshooting:

Cause	Check method	Solution
The expansion slot setting of A14-37 conflicts with A14-38.	Check whether the setting of A14-37 conflicts with A14-38.	Set the expansion card slot properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

81-1：Grid voltage too high

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

If the grid voltage of the HE model is higher than ([A14-54] x voltage base value) for 2s, F81-1 is reported.

Troubleshooting:

Cause	Check method	Solution
The input grid voltage is too high.	Check whether the input grid voltage is too high.	Adjust the input grid voltage to a value within the normal range.
The voltage class of the model is set incorrectly.	Check whether the voltage class of the model is set properly.	Set the voltage class of the model correctly.
The overvoltage threshold of the grid voltage is set improperly.	Check whether the overvoltage threshold of the grid voltage is set improperly.	Set A14-54 properly.
The grid voltage sampling is abnormal.	Check whether the power grid voltage sampling is normal.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

81-2：Grid voltage too low

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

If the grid voltage of the HE series models is lower than ([A14-55] x voltage base value) for 2s, F81-2 is reported.

Troubleshooting:

Cause	Check method	Solution
The input grid voltage is too low.	Check whether the input grid voltage is too low.	Adjust the input grid voltage to a value within the normal range.
The voltage class of the model is set incorrectly.	Check whether the voltage class of the model is set properly.	Set the voltage class of the model correctly.
The undervoltage threshold of the grid voltage is set improperly.	Check whether the undervoltage threshold of the grid voltage is set improperly.	Set A14-55 properly.
Phase loss occurs to the mains.	Check whether phase loss occurs on the power grid side.	Ensure that the input wiring is correct.
The grid voltage sampling is abnormal.	Check whether the power grid voltage sampling is normal.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

81-7：R phase loss

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The grid voltage sampling is abnormal or phase R connection of the grid is interrupted.

Troubleshooting:

Cause	Check method	Solution
The grid voltage sampling is abnormal.	1. Check whether the power grid voltage sampling is normal.	Ensure that the input wiring is correct.
Phase loss occur on phase R.	2. Check whether phase loss occur on phase R.	Contact Inovance for technical support.

Other fault causes lead to the fault.	3. Contact technical support engineers of Inovance.	Contact Inovance for technical support.

81-8：S phase loss

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The grid voltage sampling is abnormal or the grid phase S connection is interrupted.

Troubleshooting:

Cause	Check method	Solution
The grid voltage sampling is abnormal.	1. Check whether the power grid voltage sampling is normal.	Ensure that the input wiring is correct.
Phase loss occurs on phase S.	2. Check whether phase loss occur on phase S.	Contact Inovance for technical support.
Other fault causes lead to the fault.	3. Contact technical support engineers of Inovance.	Contact Inovance for technical support.

81-9：T phase loss

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The grid voltage sampling is abnormal or the grid phase T connection is interrupted.

Troubleshooting:

Cause	Check method	Solution
The grid voltage sampling is abnormal.	1. Check whether the power grid voltage sampling is normal.	Ensure that the input wiring is correct.
Phase loss occur on phase T.	2. Check whether phase loss occur on phase T.	Contact Inovance for technical support.
Other fault causes lead to the fault.	3. Contact technical support engineers of Inovance.	Contact Inovance for technical support.

82-1：DC pre-charge fault

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

The DC bus voltage rises above the undervoltage threshold and no DC pre-charge unit feedback signal is detected.

Troubleshooting:

Cause	Check method	Solution
The multi-drive system is not configured with DC pre-charge unit but the detection is enabled (A4-11 = 1).	Check whether the multi-drive system is not configured with DC pre-charge unit but the detection is enabled (A4-11 = 1).	Set A4-11 to 0 to disable the pre-charge resistor detection function.
The feedback signal detection circuit of the DC pre-charge unit is abnormal.	1. Check the feedback signal of the DC pre-charge unit. 2. For H4, H6, and H7 units, check whether there is no external 24 V power supply.	1. Ensure that the feedback signal of the DC pre-charge unit is normal. 2. For H4, H6, and H7 units, ensure that the external 24 V power supply is normal.
The pre-charge unit is damaged.	Replace the DC pre-charge unit to check whether the fault can be reset.	Replace the DC pre-charge unit.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

83-1：InoLink address conflict

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque

6: Display alarm only

Cause:

Duplicate node addresses exist in the InoLink network.

Troubleshooting:

Cause	Check method	Solution
Duplicate node addresses exist in the InoLink network.	Check whether the same node address exists in n0-02 [Local node address] of the drive in the InoLink network.	Set a unique address to each node in the InoLink network.

83-2：InoLink communication offline

Default fault level: 0: Coast to stop

Reset method： Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Inolink is enabled and no node data is received within the preset time.

Troubleshooting:

Cause	Check method	Solution
InoLink is connected improperly or disconnected.	1. Check whether the RS485 circuit is connected properly. 2. Check whether the RS485 is wired reversely.	Ensure that InoLink is connected properly.
The termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Check whether the DIP switch of the termination resistor is set correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

83-3：InoLink: receiver offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

This fault is triggered when InoLink is enabled, the specified data of the specified node is not received and such status lasts for a period of time longer than the data reception timeout threshold.

Troubleshooting:

Cause	Check method	Solution
The specified node is not online.	Check and ensure that wiring is correct.	Ensure that the wiring is correct.
The specified node address does not exist.	Set a unique address to each node.	Set a unique address to each node.
The termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Check whether the DIP switch of the termination resistor is set correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

83-5：Optical fiber sync expansion module: node address conflict

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop

mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The address of the local node conflicts with that of another node in the network when n22-00 is set to 1.

Troubleshooting:

Cause	Check method	Solution
The node address is repetitive.	Check whether n22-05 [local address] of each drive is the same as the address of other nodes in the network.	Set a unique address to each node.

83-6：Optical fiber sync expansion module: data interruption of the data reception node A

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The node A source address communication is disconnected after it is established. If the communication interrupt detection time [n22-01] is set to 0, the fault is not reported.

Troubleshooting:

Cause	Check method	Solution

The HCU corresponding to node A is disconnected from the network.	1. Check whether the HCU power supply corresponding to node A is normal. 2. Check whether the HOFR power supply is normal. 3. Check whether the communication configuration of node A is correct.	1. Check whether the HCU power supply corresponding to node A is normal. 2. Check whether the HOFR power supply is normal. 3. Check whether the communication configuration of node A is correct.
The optical fiber circuit is abnormal.	Check whether the optical fiber circuit corresponding to the address of the data reception node A is disconnected or other fault exists. If the communication interrupt detection time of [n22-01] is set to 0, the fault is not reported.	Check the wiring of the corresponding address of the data reception node A.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

83-7：Optical fiber sync expansion module: data interruption of the data reception node B

Default fault level： 0: Coast to stop

Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Node B source address communication is disconnected after it is established. If the communication interrupt detection time defined by [n22-01] is set to 0, the fault is not reported.

Troubleshooting:

Cause	Check method	Solution
The optical fiber circuit is	Check whether the optical fiber circuit	Check the wiring of the corresponding

abnormal.	corresponding to the address of the data reception node B is disconnected or other fault exists. If the communication interrupt detection time of [n22-01] is set to 0, the fault is not reported.	address of the data reception node B.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

83-8：Optical fiber sync expansion module: data interruption of the data reception node C

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Node C source address communication is disconnected after it is established. If the communication interrupt detection time defined by [n22-01] is set to 0, the fault is not reported.

Troubleshooting:

Cause	Check method	Solution
The optical fiber circuit is abnormal.	Check whether the optical fiber circuit corresponding to the address of the data reception node C is disconnected or other fault exists. If the communication interrupt detection time of [n22-01] is set to 0, the fault is not reported.	Check the wiring of the corresponding address of the data reception node C.
Other fault causes lead to the	Contact Inovance for technical support.	Contact Inovance for technical support.

fault.		

83-9：Optical fiber sync expansion module: module offline

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The communication network is started but the local heartbeat feedback value is not updated for more than 0.3s.

Troubleshooting:

Cause	Check method	Solution
The optical fiber circuit is abnormal.	Check whether the optical fiber expansion module and the HCU are cross-connected.	Ensure that the optical fiber circuit is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

83-10：Data reception error of optical fiber sync expansion module

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited

current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The local controller receives data that not requested by it.

Troubleshooting:

Cause	Check method	Solution
The transmission and reception circuits between modules are wired improperly.	Check whether the optical fiber expansion module and the HCU are cross-connected.	Ensure that the optical fiber circuit is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

84-1：Brake cannot be released

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The brake release command is generated but feedback signal that indicates the brake has been released ([L1-15] = 0) is not received.

Troubleshooting:

Cause	Check method	Solution
The brake feedback wiring is	Check and ensure that the brake	Ensure that the brake feedback circuit

incorrect or disconnected.	feedback loop is normal.	is normal and that external interference sources are eliminated.
The brake function is set incorrectly.	If there is no brake feedback signal, check whether L1-00 is not set to 1.	When there is no brake feedback signal, set L1-00 to 1.
The brake release feedback signal source is set incorrectly.	Ensure that L1-15 is set correctly.	Ensure that L1-15 is set correctly.

84-2：Brake cannot be applied

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The brake apply command is generated but the feedback signal that indicates the brake has been applied ([L1-15] = 1) is not received.

Troubleshooting:

Cause	Check method	Solution
The brake feedback wiring is incorrect or disconnected.	Check that the brake feedback circuit is normal.	Ensure that the brake feedback circuit is normal and that external interference sources are eliminated.
The brake function is set incorrectly.	If there is no brake feedback signal, check whether L1-00 is not set to 1.	When there is no brake feedback signal, set L1-00 to 1.
The brake release feedback signal source is set incorrectly.	Ensure that L1-15 is set correctly.	Ensure that L1-15 is set correctly.

84-3：Brake verification failure

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

During the brake verification [L1-31], the output torque [U6-01] cannot reach half of the verification torque [L1-32].

Troubleshooting:

Cause	Check method	Solution
The brake is not applied properly.	Check whether the brake mechanism can be applied properly.	Ensure that the brake can be applied properly.
The brake is excessively worn.	Check whether the brake mechanism is excessively worn.	Replace the brake mechanism.

84-4：Brake verification failure

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque

6: Display alarm only

Cause:

During the brake test, [U9-00] continuously exceeds the speed threshold set by [L1-34] within the time set by [L1-35].

Troubleshooting:

Cause	Check method	Solution
The brake is not applied properly.	Check whether the brake mechanism can be applied properly.	Ensure that the brake can be applied properly.
The brake is excessively worn.	Check whether the brake mechanism is excessively worn.	Replace the brake mechanism.

84-5：Automatic start upon brake failure for protection

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

1. The encoder pulse change exceeds the judgment threshold at stop. Protection for brake is activated automatically. Floating at zero speed is maintained and the stop command is not responded. Re-send the operating command, set the speed, slowly lower down the device to a safe area, and then power off the drive.

Troubleshooting:

Cause	Check method	Solution
This function is disabled by L1-37 mistakenly.	Check whether L1-37 is set to 1.	Disable L1-37.
The brake is excessively worn.	Check whether the brake mechanism is excessively worn.	Replace the brake mechanism.

85-1：HCU internal data exchange error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Internal data exchange errors of the HCU are detected.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

85-3：State machine out of range

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The state machine is out of range.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

85-4：Interrupt generated by error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Abnormal interrupt is detected.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

85-5：HCU internal data synchronization error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An internal data synchronization error of the HCU is detected.

Troubleshooting:

Cause	Check method	Solution
DSP or FPGA software programming is performed.	Contact Inovance for technical support.	Fault reset
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-1：Model code not exist

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The model set by [A3-00] or the model saved in HINT does not exist.

Troubleshooting:

Cause	Check method	Solution
The model set by [A3-00] does not exist.	Reset A3-00 [Model setting] and check whether the fault is cleared.	Check whether the model is set correctly.
The model saved on HINT does not exist.	Reset A3-00 (Model setting) and download it to the HINT board to check whether the fault is cleared.	Reset the model and download the model setting to the HINT board.
The HINT is faulty.	Power on the system again or replace the HINT board and check whether the fault is cleared.	Power on again or replace the HINT board.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-2：Model parameter/Software undervoltage threshold changed

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The model parameters are changed but not downloaded.

Troubleshooting:

Cause	Check method	Solution
The model parameters ([A3-00] to [A3-11]) are changed but not downloaded.	Download the parameters to be modified and check whether the fault is cleared.	Download the parameters to be modified.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-3: Model parameter/Software undervoltage threshold not match

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The model set by HCU is inconsistent with the model read by HINT.

Troubleshooting:

Cause	Check method	Solution
The HCU has been replaced.	Check whether the rated information parameters of the module in group A2 and the power unit match each other. If yes, the fault can be reset directly; otherwise, contact technical support.	Ensure that the ratings of the A2 module match the power unit.
The power unit has been replaced.	Check whether the rated information parameters of the module in group A2 and the power unit match each other. If yes, the fault can be reset directly; otherwise, contact technical support.	Ensure that the ratings of the A2 module match the power unit.
Only the HINT has been replaced.	Contact Inovance technical support to reset the model and calibration parameters.	Contact Inovance technical support to set the model and calibration parameters properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-4：Inconsistent model code

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In the parallel mode, not all the power module models are consistent.

Troubleshooting:

Cause	Check method	Solution
In the parallel mode, not all the power module models are consistent.	Check whether the nameplate parameters of each module are consistent.	Ensure that the nameplate parameters of each module are consistent.
Only the HINT has been replaced.	Reset the model and calibration parameters.	Contact Inovance technical support to set the model and calibration parameters properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-6：Mismatch between model and software

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The model parameter of the power part does not match current HCU.

Troubleshooting:

Cause	Check method	Solution
The power module type does not match the HCU software type.	1. Check the matching relationship between the required model and software type. 2. If the power unit type is different from the desired one, replace with a correct power unit 3. If the software type of the HCU controller is not the expected one, replace with the correct HCU controller.	The power unit type does not match the HCU software type.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-7：Unknown model code/Software undervoltage threshold limit violated

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The model code read by the HCU from HINT and the software type do not match, leading to fault F88-7.
If the software undervoltage threshold read by the HCU from HINT exceeds the range of [A4-16], fault F88-7 can be reported and [A4-16] will be restored to the default value.

Troubleshooting:

Cause	Check method	Solution
Different types of power modules are connected to the HCU.	Check the power module and HCU model. Connect the same type of power module to the HCU.	1. Check whether the power module and HCU type match each other. 2. Contact technical support engineers of Inovance.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-8：Unknown model code found

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The model code set by A3-00 can not be identified by HCU.

Troubleshooting:

Cause	Check method	Solution
The model set by [A3-00] does not exist.	Set the model code [A3-00] correctly to check whether the fault is cleared.	Set [A3-00] correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-9：Calibration coefficient out-of-range

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The calibration coefficient read from the HINT is beyond the normal range.

Troubleshooting:

Cause	Check method	Solution
The HINT calibration coefficient is abnormal.	Check whether A3-02 to A3-11 are set incorrectly.	Set the calibration coefficient correctly and download the setting.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-11：Software undervoltage threshold inconsistency

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The software undervoltage threshold in HINT is inconsistent with [A4-16].

Troubleshooting:

Cause	Check method	Solution
The HCU has been replaced.	Check whether the HCU has been replaced.	When the HINT undervoltage thresholds of the modules are consistent but different from the undervoltage threshold defined by the software, [A4-16] will be updated to the undervoltage threshold of HINT.
Only the HINT has been replaced.	Check whether only HINT is replaced.	1. Select the unit module through [A3-12] in the parallel mode and read the command through [A3-14]. The undervoltage threshold of the corresponding module is displayed in [A3-47]. 2. Set A4-16 (Software undervoltage threshold) correctly and download the setting to the corresponding HINT module.
Different types of power modules are connected to the HCU.	Check whether different types of power modules are connected to the HCU.	1. Check whether the power module and HCU type match each other. 2. Contact technical support engineers of Inovance.

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

88-16：Mismatch between model setting and function parameter

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The HE200 model is used only as a rectifier unit (using the power unit of HE300), but the inverter function is not disabled by A14-39.

Troubleshooting:

Cause	Check method	Solution
Parameters are set improperly.	Check whether A14-39 is set incorrectly.	Set A14-39 properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

89-1：24 V power supply voltage excessively low

Default fault level： 6: Display alarm only　　Reset method： Automatic/Manual reset

Fault level： 6: Display alarm only

Cause:

The 24 V control power supply voltage on the HCU is too low.

Troubleshooting:

Cause	Check method	Solution
The 24 V control power supply of HCU is abnormal.	Check whether the HCU control circuit voltage is within 24 V±10%.	Check whether the HCU control circuit voltage is within 24 V±10%.
The 24 V output is short-circuited.	Check whether the 24 V output (J11 position on the HCU) is short-circuited.	Check whether the 24 V output (J11 position on the HCU) is short-circuited.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

91-1：Mode setting conflict

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The actual single/parallel mode is inconsistent with the set single/parallel mode.

Troubleshooting:

Cause	Check method	Solution
Set A15-00 to 0. The HCU is connected to the HPCU.	Check whether the HCU is connected to the HPCU when A15-00 is set to 0.	When the HCU is connected to the HPCU, set A15-00 to 1.
Set A15-00 to 1. The HCU is directly connected to HINT.	Check whether the HCU is directly connected to HINT when A15-00 is set to 1.	When the HCU is directly connected to HINT, A15-00 needs to be set to 0.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

91-2：Enabled modules and online modules inconsistent

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed

5: Operated at limited torque
6: Display alarm only

Cause:

The number of modules enabled by A15-02 and A15-03 are inconsistent with the number of modules actually online.

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Troubleshooting:

Cause	Check method	Solution
A15-02 and A15-03 are set incorrectly.	Check whether A15-02 and A15-03 are set incorrectly.	Set A15-02 and A15-03 properly according to the actual connected module.
The optical fiber circuit is abnormal.	Check the connection circuit of the offline module according to the online display information of A15-05 and A15-06.	Check the connection circuit of the offline module according to the online display information of A15-05 and A15-06.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

91-4：HPCU offline

Default fault level: 0: Coast to stop　　Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

In parallel mode, the HCU does not receive HPCU data.

Troubleshooting:

Cause	Check method	Solution

The HPCU power supply is abnormal.	Check whether the HPCU power supply is normal.	Ensure that the HPCU power supply is normal.
The optical fiber is connected improperly.	Check whether the HPCU and HCU are properly connected.	Ensure that the HPCU and HCU optical fibers are connected properly.
The model of the HPCU module is incorrect.	Check whether the HPCU nameplate information is correct.	Check whether the HPCU nameplate information is correct.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

92-2：Phase U loss in parallel mode

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In parallel operation, the phase U current of a module is significantly lower than the phase U current of other modules during operation.

Troubleshooting:

Cause	Check method	Solution
Phase U of a paralleled module is disconnected or connected improperly.	Check wiring of phase U.	Ensure that phase U is wired properly.
The phase U current of a paralleled module is detected to be abnormal.	1. Check the wiring of the Hall device, set the corresponding module through the software tool, and observe whether the corresponding output current is abnormal. 2. Replace the corresponding power module.	1. Replace the corresponding Hall sensor. 2. Replace the corresponding power module.
IGBT of phase U of a paralleled module is faulty.	Contact Inovance for technical support.	Replace the corresponding power module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

92-3：Phase V loss in parallel mode

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In parallel operation, the phase V current of a module is significantly lower than the phase V current of other modules during operation.

Troubleshooting:

Cause	Check method	Solution
The phase V of a paralleled module is disconnected or connected improperly.	Check whether phase V is wired properly.	Ensure that phase V of the module is connected properly.
Phase V current of a paralleled module is detected to be abnormal.	1. Check the wiring of the Hall device, set the corresponding module through the software tool, and observe whether the corresponding output current is abnormal. 2. Replace the corresponding power module.	1. Replace the corresponding Hall sensor. 2. Replace the corresponding power module.
IGBT of phase V of a paralleled module is faulty.	Contact Inovance for technical support.	Replace the corresponding power module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

92-4：Phase W loss in parallel mode

Default fault level： 0: Coast to stop

Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In parallel operation, the phase W current of a module is significantly lower than the phase W current of other modules during operation.

Troubleshooting:

Cause	Check method	Solution
The wiring of phase W of a parallel module is disconnected or unreliable.	Check whether phase W is wired properly.	Ensure that phase W is wired properly.
The phase W current of a paralleled module is detected to be abnormal.	1. Check the wiring of the Hall device, set the corresponding module through the software tool, and observe whether the corresponding output current is abnormal. 2. Replace the corresponding power module.	1. Replace the corresponding Hall sensor. 2. Replace the corresponding power module.

IGBT of phase W of a paralleled module is faulty.	Contact Inovance for technical support.	Replace the corresponding power module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

92-5：Bus voltage measurement error in parallel mode

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

If the difference between the bus voltage and the average bus voltage of a module before operation is greater than 1.5% or the difference between the bus voltage and the average bus voltage of a module is greater than 5% during operation, the fault will be reported.

Troubleshooting:

Cause	Check method	Solution
The fast-acting fuse of the DC bus is damaged.	Check whether the fast-acting fuse of the DC bus is damaged.	Replace the DC bus.
The DC bus of a module is not connected.	Check whether the DC bus of a module is not connected.	Re-connect the DC bus.
The DC bus voltage sampling is not corrected or a correction error occurs.	1. Measure the actual DC bus voltage with a multimeter. 2. If HINT is replaced, re-correct the current bus voltage.	Re-correct current bus voltage.
The hardware sampling circuit is abnormal.	Check whether the hardware sampling circuit is abnormal.	Check whether the hardware sampling circuit is abnormal.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-1：Motor stall

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode

3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

F93-1 (Motor stall) is triggered when [E8-25] is set to 1, the torque reaches the torque limit and the feedback speed is lower than the threshold defined by E8-26 for a period longer than the time set by E8-27.

Troubleshooting:

Cause	Check method	Solution
The torque limit is active and the operating speed is very low when the process is used together.	Check whether the torque limit is active and the operating speed is low.	Disable the motor stall fault.
Check whether the torque limit is set properly.	Check whether E2-10 to E2-13 are set properly.	Check whether E2-10 to E2-13 are set properly, especially when communication reference is configured.
The load is too heavy.	Check whether the motor load is too heavy.	Check the motor load to avoid excessive mechanical load.
Set motor parameters properly.	Check and ensure that the motor parameter is set correctly.	Set motor parameters properly.
The encoder is faulty.	1. Check whether the encoder is connected properly. 2. Check whether the encoder is damaged. 3. Check whether the encoder parameters are configured correctly.	1. Ensure that the encoder is connected properly. 2. Ensure that the encoder is normal. 3. Ensure that the encoder parameters are configured correctly.
Motor parameters are not auto-tuned.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor parameters correctly and perform auto-tuning on motor parameters.
Output phase is lost or output is disconnected.	1. Check whether the motor wiring is reliable. 2. Check whether the contactor on the motor side is disconnected.	Ensure that the motor wiring is connected reliably and the contactor on the motor side is not disconnected.
A spinning motor is being started or the wrong speed is tracked.	Check whether a spinning motor is being started when flying start is not enabled. If the start mode is flying start, adjust the speed tracking parameters	Set the start mode to flying start and adjust the speed tracking parameters.

	to check whether this fault can be cleared.	
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-2：Motor step loss

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

When [E8-28] is set to 1, if the speed deviation exceeds the motor stall detection threshold set in E8-29 in FVC mode for a period longer than the time set in E8-30, the motor stall fault F93-2 is triggered.

Troubleshooting:

Cause	Check method	Solution
The load during high-speed operation is too heavy.	Check whether the motor load is too heavy.	Check the motor load to avoid excessive mechanical load.
The motor is still rotating. Starting a rotating motor can lead to generating state of the motor, resulting in bus overvoltage.	Check whether a spinning motor is being started when flying start is not enabled. If the start mode is flying start, adjust the speed tracking parameters to check whether this fault can be cleared.	Set E1-00 to "Flying start" or wait until the motor stops before start.
Set motor parameters properly.	Check that the motor parameters are set correctly.	Set motor parameters properly.
The encoder is faulty.	1. Check whether the encoder is connected properly. 2. Check whether the encoder is damaged. 3. Check whether the encoder parameters are	1. Ensure that the encoder is connected properly. 2. Ensure that the encoder is normal. 3. Ensure that the encoder parameters are configured correctly.

	configured correctly.	
The motor parameter deviation is large.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor parameters correctly and perform auto-tuning on motor parameters.
Output phase is lost or output is disconnected.	1. Check whether the motor wiring is reliable. 2. Check whether the contactor on the motor side is disconnected.	Ensure that the motor wiring is connected reliably and the contactor on the motor side is not disconnected.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-3：Current control error

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

In the vector control mode, the motor feedback current does not follow the reference for a long time.

Troubleshooting:

Cause	Check method	Solution
Disconnection on the motor side	1. Check whether a phase of the motor is disconnected. 2. Check whether the contactor on the motor side is connected properly.	1. Check whether a phase of the motor is disconnected. 2. Check whether the contactor on the motor side is connected properly.
The encoder is disconnected or the encoder signal is being disturbed severely.	Check the encoder wiring and handle the encoder interference.	Check the encoder wiring and handle the encoder interference.

The motor parameters are set incorrectly.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor parameters correctly and perform complete auto-tuning on motor parameters.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-4：Two- or three-phase loss

Default fault level：0: Coast to stop

Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

During operation, the output current is continuously lower than one-fourth of the no-load current. This fault only occurs during vector control of asynchronous motors.

Troubleshooting:

Cause	Check method	Solution
The motor U/V/W cable is disconnected or connected unreliably.	Check whether the motor U/V/W wiring is correct.	Check whether the motor U/V/W wiring is correct.
The output contactor is not closed or is abnormal.	Ensure that the output contactor is normally closed.	Ensure that the output contactor is closed properly.
The motor three-phase winding is abnormal.	Contact Inovance for technical support.	Replace the motor.
The motor parameters are set incorrectly.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor parameters correctly and perform complete auto-tuning on motor parameters.

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-5：Locked-rotor in SVC speed open-loop control

Default fault level：0: Coast to stop

Reset method： Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The motor is stalled when SVC speed open-loop control is enabled.

Troubleshooting:

Cause	Check method	Solution
Locked-rotor occurs when SVC speed open-loop control is enabled.	Contact Inovance for technical support.	1. Enhance the speed loop through setting E4-04 and E4-05. 2. Set [E8-38] to a value lower than 5s to shield this fault.
The load is too heavy.	Check whether the motor load is too heavy.	Check the motor load to avoid excessive mechanical load.
Set motor parameters properly.	Check that the motor parameters are set correctly.	Set motor parameters properly.
Output phase loss or the output is disconnected.	1. Check whether the motor wiring is reliable. 2. Check whether the contactor on the motor side is disconnected.	Ensure that the motor wiring is connected reliably and the contactor on the motor side is not disconnected.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-6：SVC control error

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The SVC model is abnormal during operating at a low speed.

Troubleshooting:

Cause	Check method	Solution
The SVC model is abnormal during operating at a low speed.	Contact Inovance for technical support.	1. Increase the minimum operating frequency of the motor. 2. If an encoder can be installed, run in FVC mode. 3.For non-gravitational loads, enable open loop control through E11-08.
The motor parameters are set incorrectly.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor parameters correctly and perform complete auto-tuning on motor parameters.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

93-7：Synchronous motor speed out of control

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop

2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Excessive speed deviation occurs on the synchronous motor.

Troubleshooting:

Cause	Check method	Solution
1. The zero point angle is incorrect because the encoder is connected loosely. Perform dynamic auto-tuning again to check whether n4-12 changes. 2. The FVC does not perform zero point angle auto-tuning. Check whether the value of n4-12 is normal. 3. The Z signal is abnormal due to encoder interference. Enable Z signal interference detection through n4-30. 4. The speed cannot be tracked due to the torque or current limit. 5. The speed loop kp is too weak, and the speed deviates greatly, such as the speed overshoot at the moment of brake release or during acceleration.	Contact Inovance for technical support.	1. Install the encoder properly. Check whether the encoder shaft is locked. 2. Select b5-00 to 2 (No-load rotary auto-tuning) or 7 (Synchronous motor with-load rotary auto-tuning in FVC mode). 3. Optimize the encoder signal interference, wiring, or replace the encoder. 4. Check the limit. If needed, enable synchronous motor stall protection through E8-53. 5. Enhance the speed loop kp and Ti.

93-8：Overspeed during magnetic pole position auto-tuning

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The FVC encoder can detect the actual motor speed. When the motor speed keeps exceeding 5 rpm for a long term after magnetic pole position auto-tuning is started, this fault is reported.

Troubleshooting:

Cause	Check method	Solution
The FVC encoder can detect the actual motor speed. When the motor speed keeps exceeding 5 rpm for a long term after magnetic pole position auto-tuning is started, this fault is reported. This prevents the motor from rotating at a wrong angle after the wrong magnetic pole angle is detected during operation.	Contact Inovance for technical support.	1. Start after the motor stops rotating. 2. If a motor equipped with a non-absolute encoder such as ABZ or sine-cosine encoder cannot be stopped, set E11-37 to 1 to start operating through the Z signal.

99-1：Phase U current unbalanced of paralleled modules

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：6: Display alarm only

Cause:

This fault is reported when the effective value of phase U current exceeds twice the average current at loads that lower than 25% of rated load , or the effective value of phase U current exceeds or falls below the average current by more than 25% at loads that higher than 25% of rated load.

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Troubleshooting:

Cause	Check method	Solution

The output cable length varies greatly.	Check whether the cables of each phases are consistent.	Ensure that the cable length of each phase is consistent.
The output average current inductance of each drive varies greatly.	Check whether the output inductance is different.	Ensure that the output inductance is consistent.
The current detection of a parallel unit is abnormal.	Check the wiring of the Hall device, set the corresponding module through the software tool, and observe whether the corresponding output current is abnormal.	Replace the current sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

99-2：Phase V current unbalanced of paralleled modules

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

This fault is reported when the effective value of phase V current exceeds twice the average current at loads that lower than 25% of rated load , or the effective value of phase V current exceeds or falls below the average current by more than 25% at loads that higher than 25% of rated load.

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Troubleshooting:

Cause	Check method	Solution
The output cable length varies greatly.	Check whether the cables of the phases are consistent.	Ensure that the cable length of each phase is consistent.
The output average current inductance of each AC drive varies greatly.	Check whether the output inductance is different.	Ensure that the output inductance is consistent.
The current detection of a parallel unit is abnormal.	Check the wiring of the Hall device, set the corresponding module through the software tool, and observe whether the corresponding output current is abnormal.	Replace the current sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

99-3：Phase W current unbalanced of paralleled modules

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：6: Display alarm only

Cause:

This fault is reported when the effective value of phase W current exceeds twice the average current at loads that lower than 25% of rated load , or the effective value of phase W current exceeds or falls below the average current by more than 25% at loads that higher than 25% of rated load.

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Troubleshooting:

Cause	Check method	Solution
The output cable length varies greatly.	Check whether the cables of the phases are consistent.	Ensure that the cable length of each phase is consistent.
The output average current inductance of each AC drive varies greatly.	Check whether the output inductance is different.	Ensure that the output inductance is consistent.
The current detection of a parallel unit is abnormal.	Check the wiring of the Hall device, set the corresponding module through the software tool, and observe whether the corresponding output current is abnormal.	Replace the current sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

100-1：Fault information generated

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop

Cause:

Fault information is detected to be generated.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

100-2：Sub-code error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The sub-code is abnormal.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

100-3：Main fault code error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The master code is abnormal.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

100-4：Data exchange error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Data exchange errors are detected.

Troubleshooting:

Cause	Check method	Solution
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

101-1：HINT type not matching HCU

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The power module type does not match the HCU.

Troubleshooting:

Cause	Check method	Solution
The power module type does not match the HCU software type.	1. Check the matching relationship between the required model and software type. 2. If the power unit type is different from the desired one, replace with a correct power unit 3. If the software type of the HCU controller is not the expected one, replace with the correct HCU controller.	The power unit type does not match the HCU software type.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

101-2：HINT software version not match

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In the parallel mode, the HINT modules are inconsistent in software version.

Troubleshooting:

Cause	Check method	Solution
In the parallel mode, the HINT modules are inconsistent in software version.	Check whether the software version is consistent between HINT modules in parallel mode.	1. Check whether the replaced HINT board is correct. 2. Upgrade the HINT software version to ensure that the software version of each HINT module matches.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

101-3：STO function mismatch

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In parallel mode, some HINT modules support STO while some do not.

Troubleshooting:

Cause	Check method	Solution
The incorrect HINT board is used for replacement.	Check whether the HINT plate replaced is the same as before.	1. Check whether the replaced HINT board supports the STO function as before. 2. Upgrade the HINT software version to ensure that the software version of each HINT module matches.
The hardware does not have STO function but STO detection is enabled.	Check whether the hardware does not have STO function but STO detection is enabled.	Disable the detection by H0-04.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

101-4：Mismatch between HINT function and setting

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The HINT module does not provide the synchronous motor pole auto-tuning function, but the motor type is set to synchronous.

Troubleshooting:

Cause	Check method	Solution
The incorrect HINT board is used for replacement.	Check whether the HINT plate replaced is the same as before.	1. Check whether the replaced HINT board supports the STO function as before. 2. Upgrade the HINT software version to ensure that the software version of each HINT module matches.
The motor type is set improperly.	Check whether the motor is a synchronous motor.	Set the motor type properly.
Other fault causes lead to the	Contact Inovance for technical support.	Contact Inovance for technical support.

fault.		

102-1：HINT model parameter reading error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

In the ready-to-run state, the action of reading HINT model parameter times out.

Troubleshooting:

Cause	Check method	Solution
Model parameter read timeout	Contact Inovance for technical support.	1. Power on the HCU control circuit again. 2. Power on the HINT power supply again. 3. Set and download the model parameters.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

102-2：Mismatch between HINT current sampling function and setting

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

N-point sampling is enabled by the parameter but is not available in current HINT.

Troubleshooting:

Cause	Check method	Solution
The incorrect HINT is used for replacement.	Contact Inovance for technical support.	1. Confirm the version again and replace with a new HINT. 2. The HINT software is updated.
A3-23 is set to 4, but HINT does not support N-point sampling.	Reset A3-23 [Current sampling mode].	Set A3-23 properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

114-1：Input phase loss

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

Select the input phase loss detection mode through A4-26. When a phase error is detected, F114-1 is reported.

Troubleshooting:

Cause	Check method	Solution
One of the RST power input cables is broken or connected loosely.	Check the connection of input cables.	Ensure that the RST input cables are connected properly.
The thyristor drive cable is loosely connected (only 690 V single-drive models need to be checked).	Check the thyristor drive cable.	Ensure that the thyristor drive cable is connected securely.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

117-1: Drive pre-overload

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 6: Display alarm only

Cause:

The cumulative overload value of drive reaches the pre-overload threshold.

Troubleshooting:

Cause	Check method	Solution
The load is too heavy.	Check whether the motor load is too	1. Reduce the load. 2. Select the drive

	heavy.	with a proper power rating.
Parameter auto-tuning is not performed in vector control.	Check whether the basic motor parameters are correct. Perform motor auto-tuning again to check whether the fault can be reset.	Set motor parameters correctly and perform parameter auto-tuning before operation.
The torque boost parameter is set to an excessively high value in V/f control.	Check whether the torque boost parameters E3-14 and E3-15 are set to excessively high values in V/f control.	1. E3-14 and E3-15 are set to excessively high values during manual torque boost. 2. Perform static auto-tuning after automatic torque boost.
The motor is stalled.	Check whether the motor is stalled.	Check the motor and mechanical conditions.
The drive operates with high load at low speed for a long term.	Check whether the inverter operates with high load at low speed for a long term.	The derating coefficient must be taken into account when the drive runs at low frequency for a long time. Increase the power of the drive properly.
Derating occurs due to excessively high carrier frequency.	Check whether A4-02 is set properly. Modify the A4-02 parameter to check whether the fault is reset.	Reduce the carrier frequency by setting A4-02.
Speed tracking fails.	Contact Inovance for technical support.	The speed tracked is inconsistent with the actual motor speed. After operation, the drive is overloaded due to excessively high current. If the high speed is tracked, increase the value of E7-02 (Speed tracking filter cutoff frequency).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

147-3：STO1 and STO2 input activated

Default fault level： 6: Display alarm only　　Reset method： Auto reset/Manual reset

Fault level： 6: Display alarm only

Cause:

STO1 and STO2 input are activated.

Troubleshooting:

Cause	Check method	Solution
STO1 and STO2 are activated.	Check the wiring and power supply of STO1 and STO2 input circuits. Check	Ensure that STO1 and STO2 input circuits are connected correctly with

	whether the positive and negative poles of 24 VDC of STO1 and STO2 are connected correctly.	proper power supply. Ensure that the positive and negative poles of 24 VDC of STO1 and STO2 are connected correctly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

148-2：Motor overtemperature alarm

Default fault level： 6: Display alarm only　　Reset method： Manual reset

Fault level： 6: Display alarm only; 7: No action

Cause:

When the motor temperature of E8-22 is not detected by PTC, and the detected motor temperature is higher than E8-24, A148-2 will be reported. If the resistance is higher than 1.3 kΩ, A148-2 will be reported.

Troubleshooting:

Cause	Check method	Solution
1. The actual temperature of the motor is high and a motor heat dissipation error occurs.	Check whether the actual motor temperature is too high.	1. Take measures for better heat dissipation of the motor.
2. The temperature sensor type is incorrect.	Select a proper temperature detection mode through E8-22.	2. Set the temperature sensor type correctly.
3. After the motor temperature detection is enabled, the temperature sensor is connected improperly.	Check whether the temperature sensor is connected properly.	3. Ensure stable cable connection of the temperature sensor.
4. The motor overtemperature threshold is excessively low.	Check whether E8-23 and E8-24 are set to excessively low values.	4. Set the motor overtemperature threshold properly.
5. The temperature detection module is abnormal.	Check whether the motor temperature detection module is abnormal.	5. Contact the agent or Inovance for technical support.

156-1：Communication error between bus adapter A and host controller

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The bus adapter A receives no valid data within 200 ms.

Troubleshooting:

Cause	Check method	Solution
The external bus is disconnected.	1. Check whether the circuit is disconnected or the connection is unreliable. 2. Check whether the PLC of the master works properly.	1. Ensure that the external bus is connected reliably. 2. Check whether the master PLC operates properly.
The wiring is incorrect.	1. Check whether the wiring on the reception and transmission sides is normal. 2. Check whether the connector is crimped properly. 3. Check whether the positive/negative polarity of the circuit is correct.	Ensure that the wiring is correct.
Termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.
Check bit error occurs during PROFIBUS-DP communication.	Check whether n16-10 [DP data check bit] is set correctly.	Set the DP data check bit [n16-10] properly.
Parameters are set improperly.	1. Check whether the communication baud rate is inconsistent. 2. Check whether the communication station number is incorrect or repetitive.	Ensure that the communication baud rates of the master and slave are the same and that the communication station number is set properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

156-2：Communication error between bus adapter B and host controller

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The bus adapter receives no valid data within 200 ms.

Troubleshooting:

Cause	Check method	Solution
The external bus is disconnected.	1. Check whether the circuit is disconnected or the connection is unreliable. 2. Check whether the PLC of the master works properly.	1. Ensure that the external bus is connected reliably. 2. Ensure that the master PLC is working properly.

The wiring is incorrect.	1. Check whether the wiring on the reception and transmission sides is normal. 2. Check whether the connector is crimped properly. 3. Check whether the positive/negative polarity of the circuit is correct.	Ensure that the wiring is correct.
Termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.
Check bit error occurs during PROFIBUS-DP communication.	Check whether n16-10 [DP data check bit] is set correctly.	Set the DP data check bit [n16-10] properly.
Parameters are set improperly.	1. Check whether the communication baud rate is inconsistent. 2. Check whether the communication station number is incorrect or repetitive.	Ensure that the communication baud rates of the master and slave are the same and that the communication station number is set properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

156-3：Communication error between redundant bus adapter and host computer

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The redundant bus adapter C receives no valid data within 200 ms.

Troubleshooting:

Cause	Check method	Solution
The external bus is disconnected.	1. Check whether the circuit is disconnected or the connection is unreliable. 2. Check whether the PLC of the master works properly.	1. Ensure that the external bus is connected reliably. 2. Check that the master PLC operates properly.
The wiring is incorrect.	1. Check whether the wiring on the reception and transmission sides is normal. 2. Check whether the connector is crimped properly. 3. Check whether the positive/negative polarity of the circuit is correct.	Ensure that the wiring is correct.

Termination resistor does not match.	1. Check whether the termination resistor is connected. 2. Check whether the resistance of the termination resistor is suitable.	Set the termination DIP switch or resistance of the termination resistor properly.
Check bit error occurs during PROFIBUS-DP communication.	Check whether n16-10 [DP data check bit] is set correctly.	Set the DP data check bit [n16-10] properly.
Parameters are set improperly.	1. Check whether the communication baud rate is inconsistent. 2. Check whether the communication station number is incorrect or repetitive.	Ensure that the communication baud rates of the master and slave are the same and that the communication station number is set properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

156-4：Bus adapter A data CRC error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The number of consecutive CRC errors in data received by the bus adapter reaches 10.

Troubleshooting:

Cause	Check method	Solution
The communication circuit has been disturbed.	1. Check whether the wiring is connected reliably. 2. Check whether the shield is grounded reliably.	Ensure that the wiring is connected reliably and the shield is grounded reliably.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

156-5：Bus adapter B data CRC error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The number of consecutive data CRC errors received by the bus adapter B reaches 10.

Troubleshooting:

Cause	Check method	Solution

The communication circuit has been disturbed.	1. Check whether the wiring is correct. 2. Check whether the shield is grounded reliably.	Ensure that the wiring is correct and the shield is grounded reliably.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

156-6：Redundant bus adapter data CRC error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The number of consecutive CRC errors in data received by the redundant bus adapter reaches 10.

Troubleshooting:

Cause	Check method	Solution
The communication circuit has been disturbed.	1. Check whether the wiring is correct. 2. Check whether the shield is grounded reliably.	Ensure that the wiring is correct and the shield is grounded reliably.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-1：VI auto-inspection: phase U IGBT lower bridge short-circuited

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The lower bridge of phase U IGBT is detected to be short-circuited during VI auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The lower bridge of phase U IGBT is short-circuited.	Check whether the lower bridge of phase U IGBT is short-circuited.	Ensure that the lower bridge of phase U IGBT is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-2：VI auto-inspection: phase U IGBT upper bridge short-circuited

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The upper bridge of phase U IGBT is detected to be short-circuited during VI auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The upper bridge of phase U IGBT is short-circuited.	Check whether the upper bridge of phase U IGBT is short-circuited.	Ensure that the upper bridge of phase U IGBT is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-3: VI auto-inspection: phase V IGBT lower bridge short-circuited

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The lower bridge of phase V IGBT is detected to be short-circuited during VI auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The lower bridge of phase V IGBT is short-circuited.	Check whether the lower bridge of phase U IGBT is short-circuited.	Ensure that the lower bridge of phase V IGBT is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-4: VI auto-inspection: phase V IGBT upper bridge short-circuited

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

Phase V upper bridge IGBT short-circuited during auto-inspection

Troubleshooting:

Cause	Check method	Solution
The upper bridge of phase V IGBT	Check whether the upper bridge of	Check whether the upper bridge of

is short-circuited.	phase V IGBT is short-circuited.	phase V IGBT is short-circuited.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-5：VI auto-inspection: phase W IGBT lower bridge short-circuited

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The lower bridge of phase W IGBT is detected to be short-circuited during VI auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The lower bridge of phase W IGBT is short-circuited.	Check whether the lower bridge of phase W IGBT is short-circuited.	Ensure that the lower bridge of phase W IGBT is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-6：VI auto-inspection: phase W IGBT upper bridge short-circuited

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The upper bridge of phase W IGBT is detected to be short-circuited during VI auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The upper bridge of phase W IGBT is short-circuited.	Check whether the upper bridge of phase W IGBT is short-circuited.	Ensure that the upper bridge of phase W IGBT is connected properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-7：Output short-circuited to ground

Default fault　0: Coast to stop　　Reset method： Manual reset

level：

Fault level： 0: Coast to stop

Cause:

The output is detected to be short-circuited to ground.

Troubleshooting:

Cause	Check method	Solution
Grounding fault or short circuit exists in the output circuit of the drive.	Rectify peripheral faults and ensure that no short circuit occurs on the motor or output contactor.	Rectify peripheral faults and ensure that no short circuit occurs on the motor or output contactor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-8：Bridge arm auto-inspection: IGBT U+V-W- short-circuited during pulse generation

Default fault level： 0: Coast to stop Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A short circuit is detected during IGBT U+V-W-pulse generation.

Troubleshooting:

Cause	Check method	Solution
The UV or UW output terminals are short-circuited.	1. Check whether the UV or UW output terminals of the drive are short-circuited. 2. Contact technical support.	1. Ensure that no short circuit occurs on the UV or UW terminals of the drive. 2. Contact technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-9：Bridge arm auto-inspection: Short circuit occurs during IGBT U-V+W+ pulse generation.

Default fault level： 0: Coast to stop Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A short circuit occurs during IGBT U-V+W+ pulse generation.

Troubleshooting:

Cause	Check method	Solution
The UV or UW output terminals are short-circuited.	1. Check whether the UV or UW output terminals of the drive are short-circuited. 2. Contact technical support.	1. Ensure that no short circuit occurs on the UV or UW terminals of the drive. 2. Contact technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-10：Bridge arm auto-inspection: IGBT V+U-W- short circuited during pulse output

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A short circuit is detected during IGBT V+U-W-pulse generation.

Troubleshooting:

Cause	Check method	Solution
The VU or VW output terminals are short-circuited.	1. Check whether the VU or VW output terminals of the drive are short-circuited. 2. Contact technical support.	1. Ensure that no short circuit occurs on the VU or VW terminals of the drive. 2. Contact technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-11：Bridge arm auto-inspection: IGBT V-U+W+ short circuited during pulse output

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

A short circuit occurs during IGBT V-U+W+ pulse generation.

Troubleshooting:

Cause	Check method	Solution

The VU or VW output terminals are short-circuited.	1. Check whether the VU or VW output terminals of the drive are short-circuited. 2. Contact technical support.	1. Ensure that no short circuit occurs on the VU or VW terminals of the drive. 2. Contact technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-12：Bridge arm auto-inspection: IGBT W+U-V- short circuited during pulse output

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

A short circuit occurs during IGBT W+U-V-pulse transmission.

Troubleshooting:

Cause	Check method	Solution
The WU or WV output terminals are short-circuited.	1. Check whether the WU or WV terminals of the drive are short-circuited. 2. Contact technical support.	1. Ensure that no short circuit occurs on the WU or WV terminals of the drive. 2. Contact technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-13：Bridge arm auto-inspection: IGBT W-U+V+ short circuited during pulse output

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

A short circuit occurs during IGBT W-U+V+ wave generation.

Troubleshooting:

Cause	Check method	Solution
The WU or WV output terminals are short-circuited.	1. Check whether the WU or WV terminals of the drive are short-circuited. 2. Contact technical support.	1. Ensure that no short circuit occurs on the WU or WV terminals of the drive. 2. Contact technical support.

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

158-14：System phase U loss

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Phase U is detected to be lost.

Troubleshooting:

Cause	Check method	Solution
Phase U output is not connected.	Check whether the phase U is connected.	Perform wiring again.
The phase U current sensor is abnormal.	1. Check whether the phase U current sensor is damaged. 2. Replace the phase U current sensor.	Replace the phase U current sensor.
Auto-inspection is performed during rotation of the motor.	Check whether the auto-inspection is performed when the motor is rotating.	Wait until the motor is at a standstill.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. Ensure that the motor winding is not disconnected. 2. Contact technical support.

158-15：System phase V loss

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase V is detected to be lost.

Troubleshooting:

Cause	Check method	Solution
Phase V is not connected.	Check whether the phase V is connected.	Perform wiring again.
The phase V current sensor is abnormal.	1. Check whether the phase V current sensor is damaged. 2. Replace the phase V current sensor.	Replace the phase V current sensor.

Auto-inspection is performed during rotation of the motor.	Check whether the auto-inspection is performed when the motor is rotating.	Wait until the motor is at a standstill.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. Ensure that the motor winding is not disconnected. 2. Contact technical support.

158-16：System phase W loss

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase W is detected to be lost.

Troubleshooting:

Cause	Check method	Solution
Phase W is not connected.	Check whether the phase W is connected.	Perform wiring again.
The phase W current sensor is abnormal.	1. Check whether the phase W current sensor is damaged. 2. Replace the phase W current sensor.	Replace the phase W current sensor.
Auto-inspection is performed during rotation of the motor.	Check whether the auto-inspection is performed when the motor is rotating.	Wait until the motor is at a standstill.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. Ensure that the motor winding is not disconnected. 2. Contact technical support.

159-1：Abnormal measurement of the module U phase current sensor

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase U current sensor of the module is abnormal and the measured value is exceptionally high.

Troubleshooting:

Cause	Check method	Solution
The phase U current sensor is abnormal.	1. Check whether the phase U current sensor is damaged. 2. Check whether	1. Ensure that the power cable and signal cable of the phase U current

	the power cable and signal cable of the phase U current sensor are connected properly.	sensor are connected properly. 2. Replace the phase U current sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-2：Abnormal measurement of the module V phase current sensor

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase V current sensor of the module is abnormal and the measured value is exceptionally high.

Troubleshooting:

Cause	Check method	Solution
The phase V current sensor is abnormal.	1. Check whether the phase V current sensor is damaged. 2. Check whether the power cable and signal cable of the phase V current sensor are connected properly.	1. Ensure that the power cable and signal cable of the phase V current sensor are connected properly. 2. Replace the phase V current sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-3：Abnormal measurement of the module phase W current sensor

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase W current sensor of the module is abnormal and the measured value is exceptionally high.

Troubleshooting:

Cause	Check method	Solution
The phase W current sensor is abnormal.	1. Check whether the phase W current sensor is damaged. 2. Check whether the power cable and signal cable of the phase W current sensor are connected properly.	1. Ensure that the power cable and signal cable of the phase W current sensor are connected properly. 2. Replace the phase W current sensor.

Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-4：Module U phase current sensor inversely installed

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Phase U current is reversed.

Troubleshooting:

Cause	Check method	Solution
The phase U current sensor is detected to be installed in the reverse direction.	Check whether the phase U current sensor is installed in the reverse direction.	Confirm the direction and adjust it again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-5：Module V phase current sensor inversely installed

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Phase V current is reversed.

Troubleshooting:

Cause	Check method	Solution
The phase V current sensor is detected to be installed in the reverse direction.	Check whether the phase V current sensor is installed in the reverse direction.	Confirm the direction and adjust it again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-6：Module phase W current sensor inversely installed

Default fault　0: Coast to stop　　Reset method： Manual reset

level：

Fault level： 0: Coast to stop

Cause:

Phase W current is reversed.

Troubleshooting:

Cause	Check method	Solution
Phase W current sensor installed reversely.	Check whether the phase W current sensor is installed reversely.	Confirm the direction and adjust it again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-7：Module U phase output phase loss or lower bridge IGBT open circuit

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An open circuit is detected on the phase U lower bridge.

Troubleshooting:

Cause	Check method	Solution
Phase U is lost on the output side.	Check whether phase U is not connected.	If phase U is not connected, ensure that phase U of the module is connected properly.
An open circuit is detected in the lower bridge IGBT in this phase.	Measure whether the lower bridge IGBT is abnormal.	Ensure that the lower bridge IGBT is normal.
The motor phase U winding is disconnected.	Check whether phase U is disconnected.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-8：Phase V loss or open circuit occurred on the lower bridge IGBT

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An open circuit is detected in the phase V lower bridge.

Troubleshooting:

Cause	Check method	Solution
Phase V is lost on the output side.	Check whether phase V is not connected.	If phase V is not connected, ensure that phase V of the module is connected properly.
An open circuit is detected in the lower bridge IGBT in this phase.	Measure whether the lower bridge IGBT is abnormal.	Ensure that the lower bridge IGBT is normal.
The motor V phase winding is disconnected.	Check whether phase V is disconnected.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-9：Module phase W output phase loss or open circuit occurred on lower bridge arm IGBT

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An open circuit is detected in the phase W lower bridge.

Troubleshooting:

Cause	Check method	Solution
Phase W is lost on the output side.	Check whether phase W is not connected.	If the phase W is not connected, ensure that the phase W of the module is connected properly.
An open circuit is detected in the lower bridge IGBT in this phase.	Measure whether the lower bridge IGBT is abnormal.	Ensure that the lower bridge IGBT is normal.
The motor phase W winding is disconnected.	Check whether phase W is disconnected.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-10：Module UV phase sensor incorrectly inserted

Default fault 0: Coast to stop　　Reset method： Manual reset

level：

Fault level： 0: Coast to stop

Cause:

The phase UV current sampling is abnormal.

Troubleshooting:

Cause	Check method	Solution
The UV phase sensor feedback cable of the module is connected reversely.	Check whether the feedback cable is connected correctly.	Check the feedback cable connection and adjust the connection.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-11：Module UW phase sensor inserted improperly

Default fault level： 0: Coast to stop Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase UW current sampling is abnormal.

Troubleshooting:

Cause	Check method	Solution
The UW phase sensor feedback cable of the module is connected reversely.	Check whether the feedback cable is connected correctly.	Check the feedback cable connection and adjust the connection.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-12：Module VW phase sensor inserted improperly

Default fault level： 0: Coast to stop Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The phase VW current sampling is abnormal.

Troubleshooting:

Cause	Check method	Solution

The VW phase sensor feedback cable of the module is connected reversely.	Check whether the feedback cable is connected correctly.	Check the feedback cable connection and adjust the connection.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-13：Module U phase output phase loss or upper bridge arm IGBT open circuit

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An open circuit is detected on the phase U upper bridge.

Troubleshooting:

Cause	Check method	Solution
Phase U is lost on the output side.	Check whether phase U is not connected.	Connect phase U.
An open circuit occurs on the upper bridge IGBT of this phase.	An open circuit is detected in the upper bridge IGBT.	Ensure that the upper bridge IGBT is normal.
The motor phase U winding is disconnected.	Check whether phase U is disconnected.	If the phase U is disconnected, contact the technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-14：Module V phase output phase loss or upper bridge arm IGBT open circuit

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An open circuit is detected on the phase V upper bridge.

Troubleshooting:

Cause	Check method	Solution

Phase V is lost on the output side.	Check whether phase V is not connected.	Connect phase V.
An open circuit occurs on the upper bridge IGBT of this phase.	An open circuit is detected in the upper bridge IGBT.	Measure whether the upper bridge IGBT is abnormal. If yes, contact technical support.
The motor phase V winding is disconnected.	Check whether phase V is disconnected.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-15：Module phase W output phase loss or upper bridge arm IGBT open circuit

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

An open circuit is detected on the phase W upper bridge.

Troubleshooting:

Cause	Check method	Solution
Phase W is lost on the output side.	Check whether phase W is not connected.	If the phase W is not connected, ensure that the phase W of the module is connected properly.
An open circuit occurs on the upper bridge IGBT of this phase.	An open circuit is detected in the upper bridge IGBT.	Measure whether the upper bridge IGBT is abnormal. If yes, contact technical support.
The motor phase W winding is disconnected.	Check whether phase W is disconnected.	If the phase W is disconnected, contact technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

159-16：Auto-inspection interrupted

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The auto-inspection is interrupted when a stop or emergency stop command is received during auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The auto-inspection is interrupted when a stop or emergency stop command is received during auto-inspection.	Check whether a stop or emergency stop command is received during auto-inspection.	Reset the fault and perform auto-inspection again.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-1：Three-phase current unbalance

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The sum of output currents of the three phases is greater than 20% of the rated motor current during auto-inspection.

Troubleshooting:

Cause	Check method	Solution
The average current inductance of each phase output varies greatly.	Check whether the output inductance is different.	Ensure that the output inductance is consistent.
The output cable length varies greatly.	Check whether the cables of the phases are consistent.	Ensure that the cable length of each phase is consistent.
The current of a phase is detected to be abnormal.	Check the wiring of the Hall device.	Ensure that the Hall device is wired properly.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. The motor is abnormal. 2. Contact technical support.

160-2：Excessive phase VW sampling deviation

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The sampling deviation between phase V/W current exceeds 20% of the rated motor current.

Troubleshooting:

Cause	Check method	Solution
The motor is rotating during auto-inspection.	Check whether the motor rotates during auto-inspection.	Wait until the motor stops before auto-inspection.
The output cable length varies greatly.	Check whether the cables of the phases are consistent.	Ensure that the cable length of each phase is consistent.
The Hall sampling is abnormal.	Check whether the Hall is normal.	Replace the Hall sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. The motor is abnormal. 2. Contact technical support.

160-3：UW two-phase sampling deviation too large

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The current sampling deviation between phase U/W exceeds 20% of the rated motor current.

Troubleshooting:

Cause	Check method	Solution
The motor is rotating during auto-inspection.	Check whether the motor rotates during auto-inspection.	Wait until the motor stops before auto-inspection.
The output cable length varies greatly.	Check whether the cables of the phases are consistent.	Ensure that the cable length of each phase is consistent.
The Hall sampling is abnormal.	Check whether the Hall is normal.	Replace the Hall sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. The motor operates improperly. 2. Contact the agent or Inovance for technical support.

160-4：Excessive phase UV sampling deviation

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The current sampling deviation between phase U/V exceeds 20% of the rated motor current.

Troubleshooting:

Cause	Check method	Solution
The motor is rotating during auto-inspection.	Check whether the motor rotates during auto-inspection.	Wait until the motor stops before auto-inspection.
The output cable length varies greatly.	Check whether the cables of the phases are consistent.	Ensure that the cable length of each phase is consistent.
The Hall sampling is abnormal.	Check whether the Hall is normal.	Replace the Hall sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	1. The motor operates improperly. 2. Contact the agent or Inovance for technical support.

160-5：Module U phase current imbalance

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The deviation between the module phase U current and the total phase U current of the parallel modules is greater than 10% of the rated heavy-duty current.

Troubleshooting:

Cause	Check method	Solution
The cables used for parallel operation are inconsistent.	Check that the cables of each parallel unit are consistent.	Check that the cables of each parallel unit are consistent.
The Hall sampling is abnormal.	Check whether the Hall is normal.	Replace the Hall sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-6：Module V phase current imbalance

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The deviation between the module phase V current and the total phase V current of the parallel modules is greater than 10% of the rated heavy-duty current.

Troubleshooting:

Cause	Check method	Solution

The cables used for parallel operation are inconsistent.	Check that the cables of each parallel unit are consistent.	Check that the cables of each parallel unit are consistent.
The Hall sampling is abnormal.	Check whether the Hall is normal.	Replace the Hall sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-7：Module phase W current imbalance

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The deviation of the module phase W current from the total phase W current of the parallel modules is greater than 10% of the rated heavy-load current.

Troubleshooting:

Cause	Check method	Solution
The cables used for parallel operation are inconsistent.	Check that the cables of each parallel unit are consistent.	Check that the cables of each parallel unit are consistent.
The Hall sampling is abnormal.	Check whether the Hall is normal.	Replace the Hall sensor.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-8：U phase upper bridge or V phase lower bridge IGBT continuity failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

U+V-IGBT open circuit is detected.

Troubleshooting:

Cause	Check method	Solution
The IGBT cannot be switched on.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-9：U phase lower bridge or V phase upper bridge IGBT continuity failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

U-V+IGBT open circuit is detected.

Troubleshooting:

Cause	Check method	Solution
The IGBT cannot be switched on.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-10：V phase upper bridge or phase W lower bridge IGBT continuity failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

V+W-IGBT open circuit is detected.

Troubleshooting:

Cause	Check method	Solution
The IGBT cannot be switched on.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-11：V phase lower bridge or phase W upper bridge IGBT continuity failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

V-W+IGBT open circuit is detected.

Troubleshooting:

Cause	Check method	Solution
The IGBT cannot be switched on.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-12：phase W upper bridge or U phase lower bridge IGBT continuity failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Open circuit of W+U-IGBT is detected.

Troubleshooting:

Cause	Check method	Solution
The IGBT cannot be switched on.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-13：phase W lower bridge or U phase upper bridge IGBT continuity failure

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

V+W-IGBT open circuit is detected.

Troubleshooting:

Cause	Check method	Solution
The IGBT cannot be switched on.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

160-14：Auto-inspection overcurrent

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The output transient current is 1.5 times greater than that of the motor or inverter.

Troubleshooting:

Cause	Check method	Solution
The output transient current is 1.5 times greater than that of the motor or drive.	Contact Inovance for technical support.	Contact Inovance for technical support.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-1：<I/O expansion module 1> DIO output wiring short-circuited

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

When DIO is used for output, the output cable is short-circuited.

Troubleshooting:

Cause	Check method	Solution
When DIO is used for output, the output cable is short-circuited.	Check each DIO pin used for output for short circuit.	Ensure that the output cable is not short-circuited when DIO is used as output.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-2：<I/O expansion module 2> DIO output wiring short-circuited

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

When DIO is used for output, the output cable is short-circuited.

Troubleshooting:

Cause	Check method	Solution
When DIO is used for output, the output cable is short-circuited.	Check that each DIO pin that used as output is not short-circuited.	Ensure that the output cable is not short-circuited when DIO is used as output.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-3：<I/O expansion module 3> DIO output wiring short-circuited

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

When DIO is used for output, the output cable is short-circuited.

Troubleshooting:

Cause	Check method	Solution
When DIO is used for output, the output cable is short-circuited.	Check that each DIO pin that used as output is not short-circuited.	Ensure that the output cable is not short-circuited when DIO is used as output.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-4：<I/O expansion module 1> AI input disconnected

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

When the AI of I/O expansion module 1 is selected as current signal (4 mA to 20 mA) and the input current keeps lower than the open circuit threshold for a period longer than the open circuit delay, this alarm can be reported. The relationship between analog values and open circuit threshold is shown in the following table.
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Troubleshooting:

Cause	Check method	Solution
The AI type is set improperly.	Check whether the voltage/current for	Set the AI type (input voltage/current)

	n25-41 [AI1 type] of the I/O expansion module is selected properly.	of the I/O expansion module properly. .
The AI open circuit threshold is excessively low or the open circuit delay is excessively short.	Check whether the values of n25-48 [AI1 open circuit monitoring threshold] and n25-49 [AI open circuit monitoring delay] are too low.	1. Re-adjust the value of n25-48 [AI1 open circuit monitoring threshold]. 2. Re-adjust the value of n25-49 [AI open circuit monitoring delay].
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-5：<I/O expansion module 2> AI input disconnected

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

When the AI of I/O expansion module 2 is selected as current signal (4 mA to 20 mA) and the input current keeps lower than the open circuit threshold for a period longer than the open circuit delay, this alarm can be reported. The relationship between analog values and open circuit threshold is shown in the following table. .

Troubleshooting:

Cause	Check method	Solution
The AI type is set improperly.	Check whether the voltage/current for n28-41 [AI1 type] of the I/O expansion module is selected properly.	Set the AI type (input voltage/current) of the I/O expansion module properly. .
The AI open circuit threshold is excessively low or the open circuit delay is excessively short.	Check whether the values of n28-48 [AI1 open circuit monitoring threshold] and n28-49 [AI open circuit monitoring delay] are too low.	1. Re-adjust the value of n28-48 [AI1 open circuit monitoring threshold]. 2. Re-adjust the value of n28-49 [AI open circuit monitoring delay].
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-6：<I/O expansion module 3> AI input disconnected

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

When AI of I/O expansion module 1 is selected as the current signal (4-20mA) and the input current keeps

lower than the open circuit monitoring threshold for a period longer than the open circuit monitoring delay, this alarm will be reported.

Troubleshooting:

Cause	Check method	Solution
The AI type is set improperly.	Check whether the voltage/current for n31-41 [AI1 type] of the I/O expansion module is selected properly.	Set the AI type (input voltage/current) of the I/O expansion module properly. .
The AI open circuit threshold is excessively low or the open circuit delay is excessively short.	Check whether the values of n31-48 [AI1 open circuit monitoring threshold] and n31-49 [AI open circuit monitoring delay] are too low.	1. Re-adjust the value of n31-48 [AI1 open circuit monitoring threshold]. 2. Re-adjust the value of n31-49 [AI open circuit monitoring delay].
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-7：<I/O expansion module 1> EEPROM operation error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

I/O calibration parameters cannot be written or saved to EEPROM.

Troubleshooting:

Cause	Check method	Solution
EEPROM fault	Contact Inovance for technical support.	1. Re-write calibration parameters. 2. Replace the I/O expansion module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-8：<I/O expansion module 2> EEPROM operation error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

I/O calibration parameters cannot be written or saved to EEPROM.

Troubleshooting:

Cause	Check method	Solution

EEPROM fault	Contact Inovance for technical support.	1. Re-write calibration parameters. 2. Replace the I/O expansion module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-9：<I/O expansion module 3> EEPROM operation error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

I/O calibration parameters cannot be written or saved to EEPROM.

Troubleshooting:

Cause	Check method	Solution
EEPROM fault	Contact Inovance for technical support.	1. Re-write calibration parameters. 2. Replace the I/O expansion module.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-10：<I/O expansion module 1> Calibration coefficient error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The default calibration parameter for AI or AO is abnormal and n7-39 is set to "Calibration inhibited".

Troubleshooting:

Cause	Check method	Solution
The default calibration parameter for AI or AO is abnormal and n7-39 is set to "Calibration inhibited".	Check n7-15 (feedback status of the expansion module) and modify the corresponding calibration coefficient. 1. When bit3/7/11 of [n7-15] are set to 1, calibration parameters of AI1/AI2/AI3 are abnormal. 2. If bit13/14/15 of [n7-15] are set to 1, calibration parameters of AO1/AO2/AO3 are abnormal.	Check the feedback status of the expansion module through n7-15 and modify the calibration coefficient of the abnormal channel.
Other fault causes lead to the	Contact Inovance for technical support.	Contact Inovance for technical support.

fault.		

170-11：<I/O expansion module 2> Calibration coefficient error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The default calibration parameter for AI or AO is abnormal and n8-39 is set to "Calibration inhibited".

Troubleshooting:

Cause	Check method	Solution
The default calibration parameter for AI or AO is abnormal and n8-39 is set to "Calibration inhibited".	Check n8-15 (feedback status of the expansion module) and modify the corresponding calibration coefficient. 1. When bit3/7/11 of [n8-15] are set to 1, calibration parameters of AI1/AI2/AI3 are abnormal. 2. If bit13/14/15 of [n8-15] are set to 1, calibration parameters of AO1/AO2/AO3 are abnormal.	Check the feedback status of the expansion module through n8-15 and modify the calibration coefficient of the abnormal channel.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

170-12：<I/O expansion module 3> Calibration coefficient error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The default calibration parameter for AI or AO is abnormal and n9-39 is set to "Calibration inhibited".

Troubleshooting:

Cause	Check method	Solution
The default calibration parameter for AI or AO is abnormal and n9-39 is set to "Calibration inhibited".	Check n9-15 (feedback status of the expansion module) and modify the corresponding calibration coefficient. 1. When bit3/7/11 of [n9-15] are set to 1, calibration parameters of AI1/AI2/AI3 are abnormal. 2. If bit13/14/15 of [n9-	Check the feedback status of the expansion module through n9-15 and modify the calibration coefficient of the abnormal channel.

	15] are set to 1, calibration parameters of AO1/AO2/AO3 are abnormal.	
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

172-1：Phase-U module pre-overtemperature

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The detected phase U temperature is higher than the pre-overtemperature threshold.

The pre-overtemperature threshold of the module can be set through A4-27.

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Troubleshooting:

Cause	Check method	Solution
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan operates properly.	Check whether the fan works properly.	If the fan is faulty, replace the fan.
The ambient temperature is high.	Check whether the ambient temperature is too high. Reduce the ambient temperature to check whether the fault is cleared.	Lower down the ambient temperature.
The overtemperature alarm threshold is set to an excessively high value.	Set A4-27 properly and check whether the fault is cleared.	Set A4-27 properly.
The module is faulty.	Check whether phase U module operates properly.	Contact Inovance for technical support.

172-2：Phase V module pre-overtemperature

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The detected phase V temperature exceeds the pre-overtemperature threshold of the module.

The pre-overtemperature threshold of the module can be set through A4-27.

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Troubleshooting:

Cause	Check method	Solution
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan operates properly.	Check whether the fan works properly.	If the fan is faulty, replace the fan.
The ambient temperature is high.	Check whether the ambient temperature is too high. Reduce the ambient temperature to check whether the fault is cleared.	Lower down the ambient temperature.
The overtemperature alarm threshold is set to an excessively high value.	Set A4-27 properly and check whether the fault is cleared.	Set A4-27 properly.
The module is faulty.	Check whether phase V module operates properly.	Contact Inovance for technical support.

172-3：Phase-W module pre-overtemperature

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The detected phase W temperature exceeds the pre-overtemperature threshold of the module.

The pre-overtemperature threshold of the module can be set through A4-27.

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Troubleshooting:

Cause	Check method	Solution
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan operates properly.	Check whether the fan works properly.	If the fan is faulty, replace the fan.
The ambient temperature is high.	Check whether the ambient temperature is too high. Reduce the ambient temperature to check whether the fault is cleared.	Lower down the ambient temperature.
The overtemperature alarm threshold is set to an excessively high value.	Set A4-27 properly and check whether the fault is cleared.	Set A4-27 properly.
The module is faulty.	Check whether the phase W module operates properly.	Contact Inovance for technical support.

172-7：Control chamber temperature error

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：6: Display alarm only

Cause:

The module phase W temperature is higher than ([A4-34] - [A4-27]).
The pre-overtemperature threshold of the module can be set through A4-27.

Troubleshooting:

Cause	Check method	Solution
The air duct is blocked.	Check whether the air duct is blocked.	Clean the air duct.
The fan operates properly.	Check whether the fan works properly.	If the fan is faulty, replace the fan.
The ambient temperature is high.	Check whether the ambient temperature is too high. Reduce the ambient temperature to check whether the fault is cleared.	Lower down the ambient temperature.
The overtemperature alarm threshold is set to an excessively high value.	Set A4-27 properly and check whether the fault is cleared.	Set A4-27 properly.
The module is faulty.	Check whether the phase W module operates properly.	Contact Inovance for technical support.

173-7：(Synchronous voltage measurement module 1) version incompatibility

Default fault level：0: Coast to stop　　Reset method：Manual reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque

6: Display alarm only

Cause:

The synchronous voltage detection module is not supported in this version of the software.

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Troubleshooting:

Cause	Check method	Solution
The software version is not supported.	Contact Inovance for technical support.	Upgrade the HSVM software to the latest version.

174-13：HSVM wiring phase sequence error

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The HSVM sampling card wiring is inconsistent with the internal U/V/W phase sequence of the module.

Troubleshooting:

Cause	Check method	Solution
The HSVM wiring phase sequence is incorrect: VWU or UWV.	Check that the UVW phase sequence is correct.	Ensure that the UVW phase sequence is correct.

174-14：Phase-U module pre-overtemperature

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The sampling cable of the HSVM sampling card is disconnected.

Troubleshooting:

Cause	Check method	Solution
The HSVM sampling cable is disconnected.	Check cable connection of the HSVM module.	Ensure that the HSVM module is connected properly.

183-4：InoLink communication: Local address being the node address for data reception

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

After InoLink is enabled, the local address is used as the address for data reception.

Troubleshooting:

Cause	Check method	Solution
The specified node address for receiving data is set incorrectly.	Check whether the node address of the data received by InoLink communication is the same as the local address.	Set the node address for receiving data correctly.
The local address is set incorrectly.	Check whether the node address of the data received by InoLink communication is the same as the local address.	Set the local address correctly.

183-5：Optical fiber sync expansion module: node address conflict

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The address of the local node conflicts with that of another node in the network when n22-00 is set to 0.

Troubleshooting:

Cause	Check method	Solution
The node address is repetitive.	When n22-00 is set to 0, check whether the node address of the optical fiber synchronous expansion module conflicts with that of other nodes in the network.	Set a unique address to each node.

183-6：Optical fiber sync communication module: data reception node A not started

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The heartbeat of node A source address does not update for a long time when n22-00 is set to 0.

Troubleshooting:

Cause	Check method	Solution
The optical fiber circuit is abnormal.	Check whether the wiring of the corresponding address of the data reception node A is incorrect.	Check that the wiring of the corresponding address of the data reception node A is correct.
The node A address is not started.	Check whether the node A source address is started.	Ensure that the node A source address is started.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-7：Optical fiber sync communication module: data reception node B not started

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The heartbeat of node B source address does not update for a long time when n22-00 is set to 0.

Troubleshooting:

Cause	Check method	Solution
The optical fiber circuit is abnormal.	Check whether the wiring of the corresponding address of the data reception node B is incorrect.	Check that the wiring of the corresponding address of the data reception node B is correct.
The node address B is not started.	Check whether the node B source address is started.	Ensure that the source address of node B is started.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-8：Optical fiber sync communication module: data reception node C not started

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The heartbeat of node C source address does not update for a long time when n22-00 is set to 0.

Troubleshooting:

Cause	Check method	Solution
The optical fiber circuit is abnormal.	Check whether the wiring of the corresponding address of the data reception node C is incorrect.	Check that the wiring of the corresponding address of the data reception node C is correct.
The node address C is not started.	Check whether the node C source address is started.	Ensure that the node C source address is started.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-9：FO sync communication module: local node address not set

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

If local node address n22-05 is not set, the local communication network (n22-00 = 1) can be started, with alarm 183-9 reported.

Troubleshooting:

Cause	Check method	Solution
The local node address is not set.	Reset the local address of n22-05 and check whether the fault is cleared.	Reset n22-05 (Local address).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-10：Optical fiber sync communication module: Local address being the node address for data reception

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 6: Display alarm only

Cause:

The data reception source node set by n22-06, n22-07 or n22-08 is the local node address, A183-10 can be reported.

Troubleshooting:

Cause	Check method	Solution
The data reception source node set by 22-06, n22-07 or n22-08 is the local address.	Check n22-06, n22-07, or n22-08 to see whether the node from which the data is received is set to the address of this node. Reset the source of the data received by n22-06, n22-07, or n22-08 to check whether the fault is cleared.	Reset the data source set by n22-06, n22-07 or n22-08.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-11: FO sync communication module not activated

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 6: Display alarm only

Cause:

The communication network is started, but no slot (n22-02) is set for the optical fiber sync communication module.

Troubleshooting:

Cause	Check method	Solution
The communication network is started, but no slot (n22-02) is set for the optical fiber sync communication module.	Check whether slot of the optical fiber synchronous communication module (n22-02) is not set. After n22-02 is set, check whether the fault is cleared.	Set the card slot (n22-02).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-12: Data reception node A of the optical synchronous communication module not within the network

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 6: Display alarm only

Cause:

The address selected by node A is not detected.

Troubleshooting:

Cause	Check method	Solution
The node address set by n22-06 does not exist.	Reset n22-06 [Selection of data reception source node A] and check whether the fault is cleared.	Reset n22-06 properly.
The optical fiber of the node address loop set by n22-06 is abnormal.	Check whether the optical fiber in the node address loop set in node A (n22-06) is abnormal. Check whether the fault is cleared after replacing the optical fiber.	Check the optical fiber of the loop.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

183-13: Optical fiber sync communication module: data reception node B not in the network

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 6: Display alarm only

Cause:

The address selected by node B is not detected.

Troubleshooting:

Cause	Check method	Solution
The node address set by node B (n22-07) does not exist.	Reset n22-07 [Selection of data reception node B] and check whether the fault is cleared.	Reset n22-07 properly.
The optical fiber of the node address loop set by node B (n22-07) is abnormal.	Check whether the optical fiber in the node address loop set in node B (n22-07) is abnormal. Check whether the fault is cleared after replacing the optical fiber.	Check the optical fiber of the loop.
Other fault causes lead to the	Contact Inovance for technical support.	Contact Inovance for technical support.

fault.		

183-14：Optical fiber sync communication module data reception node C not in the network

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The address selected by node C is not detected.

Troubleshooting:

Cause	Check method	Solution
The node address set by node C (n22-08) does not exist.	Reset n22-08 [Selection of data reception source node C] and check whether the fault is cleared.	Reset n22-08 properly.
The optical fiber of the node address loop set by node C (n22-08) is abnormal.	Check whether the optical fiber in the node address loop set in node C (n22-08) is abnormal. Check whether the fault is cleared after replacing the optical fiber.	Check the optical fiber of the loop.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

187-1：Excessive position deviation

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

This fault is triggered when the real-time position deviation (U29-05) keeps exceeding the detection threshold defined by o15-49 for a period longer than o15-50.

Troubleshooting:

Cause	Check method	Solution
The difference between the feedback position and the set position exceeds the error	Check U29-00 and U29-02 to see whether the deviation is too large or whether U29-05 exceeds o15-49.	Modify the corresponding parameters, such as the deviation threshold or detection time.

threshold set by software.		

187-2：Home searching timeout

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The home searching operation exceeds the time defined by o19-21.

Troubleshooting:

Cause	Check method	Solution
The home searching operation exceeds the time defined by o19-21.	1. Check the home search mode. 2. Check the proximity switch signal. 3. Check the operating direction.	Set parameters related to homing in group o19 correctly according to the software guide.

187-3：Positioning completion timeout

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The position setpoint is unchanged, but the actual position is out of the allowable range after the time defined by o15-54 elapses.

Troubleshooting:

Cause	Check method	Solution
The position setpoint is unchanged, but the actual position is out of the allowable range after the time defined by o15-54 elapses.	1. Check whether the parameters are set properly. 2. Check whether the transmission mechanism gets stuck or the torque output is insufficient.	Set the parameters in group o17 according to the software guide.

187-4：Position feedback encoder disconnection

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

In the position control mode, encoder disconnection is detected by the hardware.

Troubleshooting:

Cause	Check method	Solution
In the position control mode, encoder disconnection is detected by the hardware.	Check the position feedback encoder and wiring.	Ensure that the position feedback encoder is connected properly.

188-1：Home invalid during operation in the positioning control mode

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The home is invalid during operation in the positioning control mode.

Troubleshooting:

Cause	Check method	Solution
The home is invalid during operation in the positioning control mode.	Check whether U20-22 is set to 0.	Perform homing to ensure that the home is valid.

188-2：Home invalid during interrupt positioning

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The home point is detected to be invalid during interrupt positioning.

Troubleshooting:

Cause	Check method	Solution
The home is invalid during interrupt positioning.	Check whether U20-22 is set to 0.	Perform homing to ensure that the home is valid.

188-3: Proximity switches 1 and 2 active at the same time

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

Proximity switches 1 and 2 are too close to each other and activated simultaneously.

Troubleshooting:

Cause	Check method	Solution
Proximity switches 1 and 2 are too close to each other and activated simultaneously.	Check whether proximity switches 1 and 2 are too close to each other and activated simultaneously.	Keep a certain distance between proximity switches 1 and 2 to prevent them from being activated simultaneously.

188-4：Proximity switch 1 signal loss

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The proximity switch 1 signal is lost, which is not detected during operation.

Troubleshooting:

Cause	Check method	Solution
The proximity switch 1 signal is lost, which is not detected during operation.	Check the position and signal circuit of the proximity switch.	Check that the position and signal circuit of the proximity switch are proper.

188-5：Proximity switch 2 signal loss

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop

2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The proximity switch 2 signal is lost, which is not detected during operation.

Troubleshooting:

Cause	Check method	Solution
The proximity switch 2 signal is lost, which is not detected during operation.	Check the position and signal circuit of the proximity switch.	Check that the position and signal circuit of the proximity switch are proper.

188-6：Proximity switch 1 position deviation too large

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：
0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

This fault is triggered when the deviation between the detection position of proximity switch 1 and the set position exceeds the maximum value of position calibration (o19-24).

Troubleshooting:

Cause	Check method	Solution
The deviation between the detection position of proximity switch 1 and the set position exceeds the set range.	Check the position and signal circuit of the proximity switch.	Check that the position and signal circuit of the proximity switch are proper.

188-7：Proximity switch 2 position deviation too large

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

This fault is triggered when the deviation between the detection position of proximity switch 2 and the set position exceeds the maximum value of position calibration (o19-24).

Troubleshooting:

Cause	Check method	Solution
The deviation between the detection position of proximity switch 2 and the set position exceeds the set range.	Check the position and signal circuit of the proximity switch.	Check that the position and signal circuit of the proximity switch are proper.

188-8：Position setpoint overlimit

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The positioning control position setpoint is out of the forward/reverse software limit range.

Troubleshooting:

Cause	Check method	Solution
The positioning control position setpoint is out of the forward/reverse software limit range.	When o17-61 is set to 1, check whether the positioning control position setpoint exceeds the positive/negative software limit range defined by o17-62 and o17-63.	Reset o17-62 and o17-63 properly.

189-1: Positive hardware limit switch 1 activated

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The positive limit switch signal 1 is activated.

Troubleshooting:

Cause	Check method	Solution
The positive limit switch signal 1 is activated.	Check whether the limit switch signal and parameter settings are correct, or run in the reverse direction.	Ensure that the limit switch signal is normal. Set L13-00 correctly or run in reverse direction.

189-2：Negative hardware limit switch 1 activated

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The negative limit switch signal 1 is activated.

Troubleshooting:

Cause	Check method	Solution
The negative limit switch signal 1 is activated.	Check whether the limit switch signal and parameter settings are correct, or run in the reverse direction.	Ensure that the limit switch signal is normal. Set L13-01 correctly or run in reverse direction.

189-3：Positive software limit switch activated

Default fault level: 6: Display alarm only Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The current position value (U29-00) is greater than the positive software limit setpoint (o17-62).

Troubleshooting:

Cause	Check method	Solution
The current position value (U29-00) is greater than the positive software limit setpoint (o17-62).	Check whether parameter settings are correct, or run in the reverse direction.	Set the positive software limit (o17-62) properly.

189-4: Negative software limit switch activated

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The current position (U29-00) is lower than the negative software limit setpoint (o17-63).

Troubleshooting:

Cause	Check method	Solution
The current position (U29-00) is lower than the negative software limit setpoint (o17-63).	Check whether parameter settings are correct, or run in the reverse direction.	Set the negative software limit (o17-63) properly.

189-5：Positive hardware limit switch 2 activated

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The positive limit switch signal 2 is activated.

Troubleshooting:

Cause	Check method	Solution
The positive limit switch signal 2 is activated.	Check whether the limit switch signal and parameter settings are correct, or run in the reverse direction.	Ensure that the limit switch signal is normal. Set L13-02 correctly or run in reverse direction.

189-6：Negative hardware limit switch 2 activated

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：0: Coast to stop
1: Emergency stop

2: Stop in normal stop mode
3: Running at limited current
4: Running at limited speed
5: Running at limited torque
6: Display alarm only
7: No action

Cause:

The negative limit switch signal 2 is activated.

Troubleshooting:

Cause	Check method	Solution
The negative limit switch signal 2 is activated.	Check whether the limit switch signal and parameter settings are correct, or run in the reverse direction.	Ensure that the limit switch signal is normal. Set L13-03 correctly or run in reverse direction.

190-1：Overload monitored

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

If [L15-02] is set to 2 or 3 and the monitoring signal [L15-00] exceeds the overload curve point within the time set by [L15-19], F190-1 is reported.

Troubleshooting:

Cause	Check method	Solution
The actual load characteristic curve exceeds the set overload curve point.	Check whether the actual load characteristic curve exceeds the set overload curve point.	Set the overload curve properly.

190-2：Underload monitored

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level： 0: Coast to stop

Cause:

If [L15-03] is set to 2 or 3 and the monitoring signal [L15-00] exceeds the underload curve point within the time set by [L15-20], F190-2 will be reported.

Troubleshooting:

Cause	Check method	Solution
The actual load characteristic curve exceeds the set underload curve point.	Check whether the actual load characteristic curve exceeds the set underload curve point.	Set the underload curve properly.

191-1：Overload monitored

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

If [L15-02] is set to 1 and the monitoring signal [L15-00] exceeds the overload curve point within the time set by [L15-19], A191-1 is reported.
If [L15-02] is set to 3 and the monitoring signal [L15-00] exceeds the overload curve point for half the time set by [L15-19], A191-1 is reported.

Troubleshooting:

Cause	Check method	Solution
The actual load characteristic curve exceeds the set overload curve point.	Check whether the actual load characteristic curve exceeds the set overload curve point.	Set the overload curve properly.

191-2：Underload monitored

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

If [L15-03] is set to 1 and the monitoring signal [L15-00] exceeds the underload curve point within the time set by [L15-20], A191-2 is reported.
If [L15-03] is set to 3 and the monitoring signal [L15-00] exceeds the underload curve point for half the time set by [L15-20], A191-2 is reported.

Troubleshooting:

Cause	Check method	Solution
The actual load characteristic curve exceeds the set underload curve point.	Check whether the actual load characteristic curve exceeds the set underload curve point.	Set the underload curve properly.

192-1：Variable frequency output contactor feedback

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The control signal and feedback signal of the variable frequency contactor do not match.

Troubleshooting:

Cause	Check method	Solution
The control signal and feedback signal of the variable frequency contactor do not match.	1. Detect whether RO1 is wired improperly. 2. Check whether the DI1 is wired properly. 3. Check whether the control circuit of the variable frequency contactor is powered off.	1. Ensure that RO1 is wired properly. 2. Ensure that DI1 is wired properly. 3. Ensure that the control circuit of the variable frequency contactor is not powered off.

192-2：Grid contactor feedback error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The control signal and feedback signal of the grid contactor do not match.

Troubleshooting:

Cause	Check method	Solution
The control signal and feedback signal of the grid contactor do not match.	1. Detect whether RO2 is wired improperly. 2. Check whether DI2 is wired properly. 3. Check whether the control circuit of the grid contactor is powered off.	1. Ensure that RO1 is wired properly. 2. Ensure that DI1 is wired properly. 3. Ensure that the control circuit of the variable frequency contactor is not powered off.

193-1：Variable frequency output contactor feedback

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current
4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The control signal and feedback signal of the variable frequency contactor do not match.

Troubleshooting:

Cause	Check method	Solution
The control signal and feedback signal of the variable frequency contactor do not match.	1. Detect whether RO1 is wired improperly. 2. Check whether the DI1 is wired properly. 3. Check whether the control circuit of the variable frequency contactor is powered off.	1. Ensure that RO1 is wired properly. 2. Ensure that DI1 is wired properly. 3. Ensure that the control circuit of the variable frequency contactor is not powered off.

193-2：Grid contactor feedback error

Default fault level: 6: Display alarm only

Reset method: Automatic reset

Fault level: 0: Coast to stop
1: Emergency stop
2: Stop in normal stop mode
3: Operated at limited current

4: Operated at limited speed
5: Operated at limited torque
6: Display alarm only

Cause:

The control signal and feedback signal of the grid contactor do not match.

Troubleshooting:

Cause	Check method	Solution
The control signal and feedback signal of the grid contactor do not match.	1. Detect whether RO2 is wired improperly. 2. Check whether DI2 is wired properly. 3. Check whether the control circuit of the grid contactor is powered off.	1. Ensure that RO1 is wired properly. 2. Ensure that DI1 is wired properly. 3. Ensure that the control circuit of the variable frequency contactor is not powered off.

194-1：Grid frequency error

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

1. The grid frequency differs greatly from the rated motor frequency.
2. The grid frequency fluctuates greatly.

Troubleshooting:

Cause	Check method	Solution
1. The grid frequency differs greatly from the rated motor frequency. 2. The grid frequency fluctuates greatly.	1. Check whether motor parameters are set properly. 2. Check whether the grid matches the rated motor parameters. 3. Check whether the HSVM detection module is wired improperly.	Check that the motor parameters are set properly, the rated motor parameters match the grid, and the HSVM detection module is wired properly.

194-2：Grid voltage error - Reserved

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The grid voltage fluctuates greatly.

Troubleshooting:

Cause	Check method	Solution
The grid voltage fluctuates greatly.	1. Check whether the grid voltage is abnormal. 2. Check whether the HSVM detection module is wired improperly.	Ensure that the grid voltage does not fluctuate abnormally and that the HSVM detection module is wired properly.

194-3：Grid voltage differs greatly from the motor rated voltage

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The grid voltage differs greatly from the motor rated voltage.

Troubleshooting:

Cause	Check method	Solution
The grid voltage differs greatly from the motor rated voltage.	1. Check whether motor parameters are set properly. 2. Check whether the grid matches the rated motor parameters 3. Correct HSVM voltage sampling.	Ensure that the motor parameters are normal and that the rated motor parameters match the grid. Correct the HSVM voltage sampling.

194-4：Grid phase synchronization timeout

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

Grid phase synchronization is not completed within 10 seconds.

Troubleshooting:

Cause	Check method	Solution
1. Grid phase synchronization is not completed within 10 seconds. 2. The grid frequency fluctuates	1. Check the grid for large frequency fluctuation. 2. Check whether the grid phase synchronization adjustment	Ensure that the grid frequency fluctuates normally and the grid phase synchronization adjustment parameters of the drive are not

excessively. 3. The grid voltage is abnormal. 4. The grid synchronization adjustment parameters are incorrect.	parameters are modified. 3. Contact Inovance for technical support.	modified mistakenly. In addition, you can contact technical support.

195-1：Pump model selected repetitively

Default fault level：6: Display alarm only　　Reset method：Automatic reset

Fault level：6: Display alarm only

Cause:

The pump model is the same as that of other pumps in the communication network.

Troubleshooting:

Cause	Check method	Solution
The pump model is the same as that of other pumps in the communication network.	Check whether the pump model is the same as that of other pumps in the communication network.	Change the model of current pump or other pumps in the network.

195-2：Communication disconnected during operation

Default fault level：　　Reset method：

Fault level：

Cause:

No data is received during operation, and communication is disconnected.

Troubleshooting:

Cause	Check method	Solution
No data is received during operation, and communication is disconnected.	1. The equipment has been disconnected from the soft pump system. 2. Check the communication wiring between the master and slave.	Ensure that the communication wiring between the master and slave is normal.

195-3：Sensor signal lost during operation

Default fault level:

Reset method:

Fault level:

Cause:

The pump pulse sensor output signal is not received during operation.

Troubleshooting:

Cause	Check method	Solution
The pump pulse sensor output signal is not received during operation.	1. The equipment has been disconnected from the soft pump system. 2. Check the wiring of the sensor and configuration of o20-08.	Ensure that the sensor is wired properly and o20-08 is configured properly.

195-4: Number of cylinders (piston) of the pump inconsistent

Default fault level:

Reset method:

Fault level:

Cause:

The number of cylinders (piston) of the pump is inconsistent with that of other pumps in the communication network.

Troubleshooting:

Cause	Check method	Solution
The number of cylinders (piston) of the pump is inconsistent with that of other pumps in the communication network.	Check the actual conditions on the site. Select the correct number of cylinders (piston) through o20-05.	Check the actual conditions on the site. Select the correct number of cylinders (piston) through o20-05.

196-1: HSTM-10 module disconnected (hardware detection)

Default fault level: 0: Coast to stop

Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The signal voltage of the torque flange does not match the module type.

Troubleshooting:

Cause	Check method	Solution
The HSTM-10 module is damaged.	Contact Inovance for technical support.	Replace the module.
The module power supply is faulty.	1. Check that the module power supply is wired properly. 2. Check whether the output voltage of the torque flange is consistent with the supply voltage of the module.	The power supply of the module is normal.
The module is wired improperly.	Check that the module is wired properly.	Ensure that the module is wired properly.
The signal cable of the module is being disturbed seriously.	Check whether the shield of the module is grounded properly.	1. Check that the shield of the module is grounded properly. 2. Route the signal cable and power cable of the module through different routes.
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

197-1：EX-FLASH1 read/write error

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The log is saved in FLASH. This alarm occurs when an error occurs during reading/writing in FLASH 1.

Troubleshooting:

Cause	Check method	Solution
An error occurred during reading/writing data in EX-FLASH 1.	Contact Inovance for technical support.	1. Power on the HCU control power supply again. 2. Clear the log through A8-00.
EX-FLASH1 hardware error	Contact Inovance for technical support.	Disable the EX-FLASH error alarm through H0-40 (log error will not be reported after shutdown).
Other fault causes lead to the fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

198-1：Quick stop function of the HPCU upon IGBT fault not matching the setting

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The signal voltage of the torque flange does not match the module type.

Troubleshooting:

Cause	Check method	Solution
The current HPCU does not support quick stop upon IGBT fault but A4-59 (Quick stop upon IGBT fault) is enabled.	Contact Inovance for technical support.	1. Update the HPCU program. 2. Set A4-59 to 0 (Inhibited). 3. Contact technical support engineers of Inovance.

201-1：RO1 lifetime reached

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The actual number of RO1 actions is greater than or equal to the product of the RO1 lifetime setpoint and the residual lifetime alarm threshold of RO1.

Troubleshooting:

Cause	Check method	Solution
The number of RO1 actions (o13-10) reaches the RO1 lifetime alarm threshold (o13-08).	Contact Inovance for technical support.	Contact Inovance for technical support.

201-2：RO2 lifetime reached

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The actual number of RO2 actions is greater than or equal to the product of the RO2 lifetime setpoint and the residual lifetime alarm threshold of RO2.

Troubleshooting:

Cause	Check method	Solution
The number of RO2 actions (o13-16) reaches the RO2 lifetime alarm threshold (o13-14).	Contact Inovance for technical support.	Contact Inovance for technical support.

201-3：RO3 lifetime reached

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The actual number of RO3 actions is greater than or equal to the product of the RO3 lifetime setpoint and the residual lifetime alarm threshold of RO3.

Troubleshooting:

Cause	Check method	Solution
The number of RO3 actions (o13-22) reaches the RO3 lifetime alarm threshold (o13-20).	Contact Inovance for technical support.	Contact Inovance for technical support.

201-4：Lifetime of the cooling fan reached

Default fault level： 6: Display alarm only　　Reset method： Automatic reset

Fault level： 6: Display alarm only

Cause:

The actual operating time of the fan reaches the lifetime alarm threshold of the fan.

Troubleshooting:

Cause	Check method	Solution
The actual operating time of the fan reaches the lifetime alarm threshold of the fan.	Contact Inovance for technical support.	Contact Inovance for technical support.

215-1：RO1 lifetime reached

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The actual number of RO1 actions is greater than or equal to the product of the RO1 lifetime setpoint and the residual lifetime fault threshold of RO1.

Troubleshooting:

Cause	Check method	Solution
The number of RO1 actions (o13-10) reaches the RO1 lifetime fault threshold (o13-09).	Contact Inovance for technical support.	Contact Inovance for technical support.

215-2: RO2 lifetime reached

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The actual number of RO2 actions is greater than or equal to the product of the RO2 lifetime setpoint and the residual lifetime fault threshold of RO2.

Troubleshooting:

Cause	Check method	Solution
The number of RO2 actions (o13-16) reaches the RO2 lifetime fault threshold (o13-15).	Contact Inovance for technical support.	Contact Inovance for technical support.

215-3: RO3 lifetime reached

Default fault level: 0: Coast to stop Reset method: Manual reset

Fault level: 0: Coast to stop

Cause:

The actual number of RO3 actions is greater than or equal to the product of the RO3 lifetime setpoint and the residual lifetime fault threshold of RO3.

Troubleshooting:

Cause	Check method	Solution

The number of RO3 actions (o13-22) reaches the RO3 lifetime fault threshold (o13-21).	Contact Inovance for technical support.	Contact Inovance for technical support.

215-4：Lifetime of the cooling fan reached

Default fault level： 0: Coast to stop　　Reset method： Manual reset

Fault level： 0: Coast to stop

Cause:

The actual operating time of the fan reaches the threshold of cooling fan lifetime fault.

Troubleshooting:

Cause	Check method	Solution
The actual operating time of the fan reaches the threshold of cooling fan lifetime fault.	Contact Inovance for technical support.	Contact Inovance for technical support.

255-1：Ccustom black box trigger command activated

Default fault level： 7: No action　　Reset method： Automatic reset

Fault level： 7: No action

Cause:

The custom black box trigger command is activated.

Troubleshooting:

Cause	Check method	Solution
The custom black box trigger command is activated.	Check whether the custom black box trigger command is activated.	-

255-2：FVC switched to SVC passively

Default fault level： 7: No action　　Reset method： Automatic reset

Fault level： 7: No action

Cause:

FVC switches to SVC passively.

Troubleshooting:

Cause	Check method	Solution
FVC switches to SVC passively.	Check whether passive switchover from FVC to SVC is activated.	-

255-3：Black box triggered forcibly

Default fault level： 7: No action

Reset method： Automatic reset

Fault level： 7: No action

Cause:

The black box is triggered forcibly.

Troubleshooting:

Cause	Check method	Solution
The black box is triggered forcibly.	Check whether the command for triggering the black box forcibly is triggered.	-

255-9：Z signal lost

Default fault level： 7: No action

Reset method： Automatic reset

Fault level： 7: No action

Cause:

The Z signal is lost.

Troubleshooting:

Cause	Check method	Solution
The Z signal is lost.	The Z signal is lost.	-

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