

Remote Unit

RUW200

Parameters manual



Parameters manual

RUW200

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The information below describes the reviews made in this manual.

Version	Revision	Description
V1.0.X	R00	First Edition.
V1.1.X	R01	Changing the range of EIP and Modbus cyclic parameters.
V1.2.X	R02	Added support for new products.
V1.3.X	R03	Release of PLC201 and RUW200.

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1 ABOUT THIS MANUAL

This manual presents all the parameters used for configuration, monitoring, and operation of the product.

This manual applies to the entire RUW20X product line; therefore, some parameters will only work in certain products.

For detailed information about the main technical characteristics, functionalities, and instructions for installation and operation of the product, please refer to the documentation available on the [WEG](#) website.

2 PRODUCT

Allows access to status and configuration parameters of the product.

Parameters P0000 to P0999 refer to the product. Parameters above P1000 refer to accessories and observe the following logic:

P-x-y-z-w

X-Accessory model as per: 1-Digital Models; 3-Analog Inputs (AI, TH, RTD); 5-Analog Outputs; 7-Load Cell Input; 9-Smart Connection.

Y-Intrabus address of the accessory depending on the position it is connected to: 1-Slot 1 (first accessory); 2-Slot 2 (second accessory); ... 8-Slot 8 (eighth accessory).



NOTE!

This manual does not present the description of the parameters for all intrabus addresses, but Slot 1, which is the same for the others. For example: if you want to know the description of P1200, P1300, P1400, P1500, P1600, P1700 or P1800, just see the description of P1100.



NOTE!

By default, product parameters **are not retentive**. For a parameter or settings to be maintained after the RUW200 is turned off, it is necessary to save the parameters in Flash memory through P0204.



NOTE!

Product parameters may change depending on the model.



NOTE!

The full list of parameters can be seen in the [Section ?? ?? on page ??](#).

PRODUCT

2.1 STATUS

Parameters for status indications and reading of the main module inputs.

2.1.1 Firmware Version/Revision/Model

P401: Product Model

Adjustable Range:	0 ... 255	Factory Setting:	255
Properties:	ro, enum		

Description:

It indicates the product model.

Indication	Description
0 = PLC200	PLC200 with 1 Ethernet port and 1 serial port.
1 = PLC201	PLC201 with 1 Ethernet port and 1 CAN port.
2 = RUW200	RUW200 with 2 Ethernet ports.
3 = RUW201	triRUW201 with 2 Ethercat ports.
4 = Versión inválida	Invalid device version.

P402...P409: Models (Slots)

Adjustable Range:	0 ... 255	Factory Setting:	255
Properties:	ro, enum		

Description:

It indicates the model of the expansion connected to each slots, with P402, P403...P409 being the accessories for Slot1, Slot2...Slot8, respectively.

Indication	Description
5 = MOD3.00 - 8 AOVI	8 voltage or current analog outputs.
6 = MOD3.10 - 8 AOV	8 voltage analog outputs.
7 = MOD7.00 - 6RE	6 relay outputs.
16 = MOD1.00 - 24DI	24 digital inputs.
17 = MOD1.10 - 24DO	24 digital outputs.
18 = MOD1.30 - 08DO/16DI	8 digital outputs and 16 digital inputs.
19 = MOD1.20 - 16DO/08DI	16 digital outputs and 8 digital inputs.
128 = MOD2.00 - 7 AI	7 voltage or current analog inputs.
129 = MOD4.00 - 7 TH	7 type J, K or T thermocouple inputs.
130 = MOD5.00 - 4 RTD	4 PT100 or PT1000 thermistor inputs.
131 = MOD6.00 - 2 SG	2 load cell inputs.
239 = MOD8.00 - SCW	WEG Smart Connection.
255 = Not Connected	Accessory not connected.

P500: Firmware Version of the Product.

Adjustable Range:	0.0 ... 99.9999	Factory Setting:	1.0401
Properties:	ro, 32bit		

Description:

Firmware version of the product.

P502...P509: Firmware Version (Slots)

Adjustable Range:	0.0 ... 19.99	Factory Setting:	1.0
Properties:	ro, 16bit		

Description:

Firmware version of connected accessories 1 to 8.

P540: Bootloader Version

Adjustable Range:	20.0 ... 60.0	Factory Setting:	20.0002
Properties:	ro, 32bit		

Description:

Bootloader auxiliary firmware version.

P560: Product Serial Number

Adjustable Range:	0 ... 4294967295	Factory Setting:	0
Properties:	ro, 32bit		

Description:

Product serial number.

P400: Number of Slots

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	ro, 8bit		

Description:

It indicates the number of connected expansion cards (Slots).

2.1.2 Communication**Serial RS485****Ethernet**

It allows viewing the status of the Ethernet network interface and the commands received by this interface.

P846: ETH - Actual IP Address

Adjustable Range:	0.0.0.0 to 255.255.255.255	Factory Setting:	0.0.0.0
Properties:	ro, ip addr		

Description:

It allows viewing the IP address in use by the Ethernet interface.

PRODUCT

P889: ETH - Interface Status

Adjustable Range:	0 ... 8 Bit	Factory Setting:	0
Properties:	ro, 16bit		

Description:

It indicates the status of the Ethernet network interface. Each bit represents a state.

Bit	Value/Description
Bit 0 Link 1	0: No link on the port. 1: Active link on the port.
Bit 1 Link 2	0: No link on the port. 1: Active link on the port.
Bit 2 ... 7 Reserved	0: Not used. 1: Not used.

P891: ETH - MAC Address

Adjustable Range:	00:00:00:00:00:00 to FF:FF:FF:FF:FF:FF	Factory Setting:	-
Properties:	ro, mac addr		

Description:

MAC address of the product.

EtherNet/IP

It allows viewing information about the EtherNet/IP protocol.

P869: EIP - Scanner Status

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	ro, enum		

Description:

It indicates the EtherNet/IP network scanner status. It may be in operation mode (Run) or in configuration mode (Idle). For detailed description, refer to the communication manual (User) according to the interface used. These manuals are they are available for download on the website: www.weg.net.

Indication	Description
0 = Run	Reading and writing telegrams are processed and updated normally by the scanner.
1 = Idle	Only reading telegrams from the adapters are updated by the scanner. Writing, in this case, is disabled.

P870: EIP - Communication Status

Adjustable Range:	0 ... 4	Factory Setting:	0
Properties:	ro, enum		

Description:

It indicates EtherNet/IP communication status. For detailed description, refer to the communication manual (User) according to the interface used. These manuals are they are available for download on the website:

www.weg.net.

Indication	Description
0 = Inactive	Not used.
1 = No connection	It indicates that the EtherNet/IP network interface has been initialized, but it is not communicating with the network scanner.
2 = Connected	It indicates that communication with the network scanner has been established, and I/O data is being successfully communicated.
3 = Timeout in I/O connection	I/O type connection has expired.
4 = Duplicate IP	Not used.

P886: EIP - DLR Topology

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	ro, enum		

Description:

Indicates the network topology.

Indication	Description
0 = Linear	Indicates linear topology.
1 = Ring	Indicates ring topology.

P887: EIP - DLR Status

Adjustable Range:	0 ... 2	Factory Setting:	0
Properties:	ro, enum		

Description:

Indicates the status of the network.

Indication	Description
0 = Idle State	Ring Node is in Idle state.
1 = Normal State	Ring Node is in Normal state.
2 = Fault State	Ring Node is in Fault state.

Modbus TCP

It allows viewing information about the Modbus TCP protocol.

P860: MBTCP - Communication Status

Adjustable Range:	0 ... 3	Factory Setting:	0
Properties:	ro, enum		

Description:

It allows identifying the status of communication with the Modbus TCP client.

Indication	Description
0 = Inactive	Communication disabled.
1 = No connection	Communication enabled, but no Modbus TCP connection active.
2 = Connected	At least one active Modbus TCP connection.
3 = Timeout Error	The equipment detected timeout in the Modbus TCP communication, programmed via P0868.

P861: MBTCP - Received Telegrams

Adjustable Range:	0 ... 65535	Factory Setting:	0
Properties:	ro, 16bit		

Description:

It indicates the number of telegrams received from the Modbus TCP server/client.

P862: MBTCP - Transmitted Telegrams

Adjustable Range:	0 ... 65535	Factory Setting:	0
Properties:	ro, 16bit		

Description:

It indicates the number of telegrams sent to the Modbus TCP server/client.

P863: MBTCP - Active Connections

Adjustable Range:	0 ... 4	Factory Setting:	0
Properties:	ro, 8bit		

Description:

It indicates the number of Modbus TCP connections active in the product.

The equipment allows up to four simultaneous Modbus TCP connections. If a connection is inactive for a time set through P0864, the connection is automatically closed by the server.

MQTT

P841: MQTT - Status

Adjustable Range:	0 ... 4	Factory Setting:	0
Properties:	ro, enum		

Description:

It indicates the status of the MQTT client, regarding settings and the sending of data to the server.

Indication	Description
0 = Inactive	It indicates that the MQTT client function is not set; it is disabled.
1 = No Connection	It indicates that the MQTT client has been set and is enabled, but there is currently no active link available.
2 = Connected (Pub)	It indicates that the MQTT client has been set up, is enabled, and has an active connection to the configured Broker for publishing data.
3 = Connected (Pub/Sub)	It indicates that the MQTT client function has been set up, is enabled, and has an active connection to the configured Broker for publishing and receiving data.
4 = Connection fail	Indicates a failure with the MQTT client connection.

PRODUCT

Bit	Value/Description
Bit 0 = DI01	Digital input DI01.
Bit 1 = DI02	Digital input DI02.
Bit 2 = DI03	Digital input DI03.
Bit 3 = DI04	Digital input DI04.
Bit 4 = DI05	Digital input DI05.
Bit 5 = DI06	Digital input DI06.
Bit 6 = DI07	Digital input DI07.
Bit 7 = DI08	Digital input DI08.

P950...P956: Counter Value

Adjustable Range:	-2147483648 ... 2147483647	Factory Setting:	0
Properties:	ro, s32bit		

Description:

Number of pulses counted by the quick counter

P970...P973: Counter Direction

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	ro, enum		

Description:

Count direction.

It only works in pulse and direction or quadrature encoder modes.

Indication	Description
0 = Count up	Count Up.
1 = Countdown	Countdown.

2.1.4 Errors and Faults

P100...P104: Last 5 faults

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	ro, enum		

Description:

It indicates the last 5 faults occurred. As per the table below.

Indication	Description
0 = NO ERROR	It doesn't contain any errors.
1 = RS485 TIMEOUT	Watchdog in RS485 serial communication.
2 ... 3 = RESERVED	See the CANopen Manual.
4 = CAN BUS OFF	See the CANopen Manual.
5 = RESERVED	See the CANopen Manual.
6 = CAN INITIALIZATION ERROR	See the CANopen Manual.
7 = CAN ENABLE ERROR	See the CANopen Manual.
8 = CANOPEN NODE GUARD ERROR	See the CANopen Manual.
9 = CANOPEN HEARTBEAT ERROR	See the CANopen Manual.
10 = HW WATCHDOG	Hardware watchdog triggered.

Indication	Description
11 ... 13 = INTERNAL ERROR	Internal error.
14 = RETENTIVE MEMORY	Retentive memory error
15 = FLASH MEMORY 50%	Number of writes to Flash memory reached 50%
16 = FLASH MEMORY 100%	Number of writes to Flash memory reached 100%
17 = NUMBER OF ACCESSORIES EXCEEDED	Maximum number of accessories (8) exceeded
18 = INTRABUS ADDRESSING ERROR	Addressing error on INTRABUS.
19 = INTRABUS IDENTIFICATION ERROR	Accessory identification error.
20 = INTERNAL ERROR	Internal error.
21 = SLOT 1 IDENTIFICATION ERROR	Slot 1 identification error.
22 = SLOT 2 IDENTIFICATION ERROR	Slot 2 identification error.
23 = SLOT 3 IDENTIFICATION ERROR	Slot 3 identification error.
24 = SLOT 4 IDENTIFICATION ERROR	Slot 4 identification error.
25 = SLOT 5 IDENTIFICATION ERROR	Slot 5 identification error.
26 = SLOT 6 IDENTIFICATION ERROR	Slot 6 identification error.
27 = SLOT 7 IDENTIFICATION ERROR	Slot 7 identification error.
28 = SLOT 8 IDENTIFICATION ERROR	Slot 8 identification error.
29 ... 30 = INTERNAL ERROR	Internal error.
31 = SLOT 1 INTRABUS TIMEOUT	Intrabus timeout error slot 1.
32 = SLOT 2 INTRABUS TIMEOUT	Intrabus timeout error slot 2.
33 = SLOT 3 INTRABUS TIMEOUT	Intrabus timeout error slot 3.
34 = SLOT 4 INTRABUS TIMEOUT	Intrabus timeout error slot 4.
35 = SLOT 5 INTRABUS TIMEOUT	Intrabus timeout error slot 5.
36 = SLOT 6 INTRABUS TIMEOUT	Intrabus timeout error slot 6.
37 = SLOT 7 INTRABUS TIMEOUT	Intrabus timeout error slot 7.
38 = SLOT 8 INTRABUS TIMEOUT	Intrabus timeout error slot 8.
39 ... 40 = INTERNAL ERROR	Internal error.
41 = SLOT 1 INTRABUS CRC ERROR	Intrabus CRC error slot 1.
42 = SLOT 2 INTRABUS CRC ERROR	Intrabus CRC error slot 2.
43 = SLOT 3 INTRABUS CRC ERROR	Intrabus CRC error slot 3.
44 = SLOT 4 INTRABUS CRC ERROR	Intrabus CRC error slot 4.
45 = SLOT 5 INTRABUS CRC ERROR	Intrabus CRC error slot 1.
46 = SLOT 6 INTRABUS CRC ERROR	Intrabus CRC error slot 6.
47 = SLOT 7 INTRABUS CRC ERROR	Intrabus CRC error slot 7.
48 = SLOT 8 INTRABUS CRC ERROR	Intrabus CRC error slot 8.
49 ... 50 = INTERNAL ERROR	Internal error.
51 = SLOT 1 INTRABUS COMMAND ERROR	Intrabus command error 1.
52 = SLOT 2 INTRABUS COMMAND ERROR	Intrabus command error 2.
53 = SLOT 3 INTRABUS COMMAND ERROR	Intrabus command error 3.
54 = SLOT 4 INTRABUS COMMAND ERROR	Intrabus command error 4.
55 = SLOT 5 INTRABUS COMMAND ERROR	Intrabus command error 5.
56 = SLOT 6 INTRABUS COMMAND ERROR	Intrabus command error 6.
57 = SLOT 7 INTRABUS COMMAND ERROR	Intrabus command error 7.
58 = SLOT 8 INTRABUS COMMAND ERROR	Intrabus command error 8.
59 ... 70 = INTERNAL ERROR	Internal error.
71 = EXTERNAL FLASH	It indicates that an error occurred while accessing the external Flash memory. Be careful not to exceed the number of writes.
72 = TIMEOUT MBTCP	It indicates that the equipment stopped receiving valid telegrams for a period longer than the setting in P0868.
73 = TIMEOUT SNTP	It indicates that the inverter tried to connect to the NTP server and got no response.
74 = LOW BATTERY	It indicates that the battery that keeps the retentive variables and recipes is low, and the values of the retentive/recipe variables have been reset to ensure data integrity. Keep the product energized to charge the battery and ensure the value retention time.
75 = SCANNER IN IDLE	It actuates when communicating with the network master in Run mode, and transition to Idle mode is detected.

Indication	Description
76 = ETHERNET IP OFFLINE	It indicates communication error with EtherNet/IP master. It occurs when, for any reason, after the cyclic communication of the master with the product is started, this communication is interrupted. This is detected if the I/O Exclusive Owner connection times out.
77 = PROGRAM WATCHDOG	A watchdog occurred for a task created by the user. Use system markers to identify which task caused the watchdog.

P105...P109: Last 5 Alarms

Adjustable 0 ... 255

Range:

Factory 0

Setting:

Properties: ro, enum

Description:

It indicates the last 5 alarms occurred. As per the table below.

Indication	Description
0 = NO ERROR	It doesn't contain any errors.
1 = RS485 TIMEOUT	Watchdog in RS485 serial communication.
2 ... 3 = RESERVED	See the CANopen Manual.
4 = CAN BUS OFF	See the CANopen Manual.
5 = RESERVED	See the CANopen Manual.
6 = CAN INITIALIZATION ERROR	See the CANopen Manual.
7 = CAN ENABLE ERROR	See the CANopen Manual.
8 = CANOPEN NODE GUARD ERROR	See the CANopen Manual.
9 = CANOPEN HEARTBEAT ERROR	See the CANopen Manual.
10 = HW WATCHDOG	Hardware watchdog triggered.
11 ... 13 = INTERNAL ERROR	Internal error.
14 = RETENTIVE MEMORY	Retentive memory error
15 = FLASH MEMORY 50%	Number of writes to Flash memory reached 50%
16 = FLASH MEMORY 100%	Number of writes to Flash memory reached 100%
17 = NUMBER OF ACCESSORIES EXCEEDED	Maximum number of accessories (8) exceeded
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19 = INTRABUS IDENTIFICATION ERROR	Accessory identification error.
20 = INTERNAL ERROR	Internal error.
21 = SLOT 1 IDENTIFICATION ERROR	Slot 1 identification error.
22 = SLOT 2 IDENTIFICATION ERROR	Slot 2 identification error.
23 = SLOT 3 IDENTIFICATION ERROR	Slot 3 identification error.
24 = SLOT 4 IDENTIFICATION ERROR	Slot 4 identification error.
25 = SLOT 5 IDENTIFICATION ERROR	Slot 5 identification error.
26 = SLOT 6 IDENTIFICATION ERROR	Slot 6 identification error.
27 = SLOT 7 IDENTIFICATION ERROR	Slot 7 identification error.
28 = SLOT 8 IDENTIFICATION ERROR	Slot 8 identification error.
29 ... 30 = INTERNAL ERROR	Internal error.
31 = SLOT 1 INTRABUS TIMEOUT	Intrabus timeout error slot 1.
32 = SLOT 2 INTRABUS TIMEOUT	Intrabus timeout error slot 2.
33 = SLOT 3 INTRABUS TIMEOUT	Intrabus timeout error slot 3.
34 = SLOT 4 INTRABUS TIMEOUT	Intrabus timeout error slot 4.
35 = SLOT 5 INTRABUS TIMEOUT	Intrabus timeout error slot 5.
36 = SLOT 6 INTRABUS TIMEOUT	Intrabus timeout error slot 6.
37 = SLOT 7 INTRABUS TIMEOUT	Intrabus timeout error slot 7.
38 = SLOT 8 INTRABUS TIMEOUT	Intrabus timeout error slot 8.
39 ... 40 = INTERNAL ERROR	Internal error.
41 = SLOT 1 INTRABUS CRC ERROR	Intrabus CRC error slot 1.
42 = SLOT 2 INTRABUS CRC ERROR	Intrabus CRC error slot 2.
43 = SLOT 3 INTRABUS CRC ERROR	Intrabus CRC error slot 3.
44 = SLOT 4 INTRABUS CRC ERROR	Intrabus CRC error slot 4.
45 = SLOT 5 INTRABUS CRC ERROR	Intrabus CRC error slot 1.

Indication	Description
46 = SLOT 6 INTRABUS CRC ERROR	Intrabus CRC error slot 6.
47 = SLOT 7 INTRABUS CRC ERROR	Intrabus CRC error slot 7.
48 = SLOT 8 INTRABUS CRC ERROR	Intrabus CRC error slot 8.
49 ... 50 = INTERNAL ERROR	Internal error.
51 = SLOT 1 INTRABUS COMMAND ERROR	Intrabus command error 1.
52 = SLOT 2 INTRABUS COMMAND ERROR	Intrabus command error 2.
53 = SLOT 3 INTRABUS COMMAND ERROR	Intrabus command error 3.
54 = SLOT 4 INTRABUS COMMAND ERROR	Intrabus command error 4.
55 = SLOT 5 INTRABUS COMMAND ERROR	Intrabus command error 5.
56 = SLOT 6 INTRABUS COMMAND ERROR	Intrabus command error 6.
57 = SLOT 7 INTRABUS COMMAND ERROR	Intrabus command error 7.
58 = SLOT 8 INTRABUS COMMAND ERROR	Intrabus command error 8.
59 ... 70 = INTERNAL ERROR	Internal error.
71 = EXTERNAL FLASH	It indicates that an error occurred while accessing the external Flash memory. Be careful not to exceed the number of writes.
72 = TIMEOUT MBTCP	It indicates that the equipment stopped receiving valid telegrams for a period longer than the setting in P0868.
73 = TIMEOUT SNTP	It indicates that the inverter tried to connect to the NTP server and got no response.
74 = LOW BATTERY	It indicates that the battery that keeps the retentive variables and recipes is low, and the values of the retentive/recipe variables have been reset to ensure data integrity. Keep the product energized to charge the battery and ensure the value retention time.
75 = SCANNER IN IDLE	It actuates when communicating with the network master in Run mode, and transition to Idle mode is detected.
76 = ETHERNET IP OFFLINE	It indicates communication error with EtherNet/IP master. It occurs when, for any reason, after the cyclic communication of the master with the product is started, this communication is interrupted. This is detected if the I/O Exclusive Owner connection times out.
77 = PROGRAM WATCHDOG	A watchdog occurred for a task created by the user. Use system markers to identify which task caused the watchdog.

2.1.5 Program

P99: Program Status

Adjustable Range: 0 ... 255

Factory Setting: 0

Properties: ro, enum

Description:

It indicates the status of the Ladder program, as shown in the table below.

Indication	Description
0 = Stopped	Ladder program stopped.
1 = Running	Ladder program running.
2 = No program	No program.
3 = Invalid	Invalid Ladder program.
4 = Installing	Installing program.

PRODUCT

Counter/Scan Cycle

P700: Counter 100us

Adjustable Range: 0 ... 4294967295

Factory Setting: 0

Properties: ro, 32bit

Description:

Internal counter that increments every 100us. It can be used as a time basis in applications that require precision.

P702: Scan Cycle

Adjustable Range: 0.0 ... 6553.5 ms

Factory Setting: 0.0

Properties: ro, 16bit

Description:

Average execution time of a product cycle in milliseconds. The value has one decimal place, so via the network it needs to be divided by 10.

P703: Minimum Scan Cycle

Adjustable Range: 0.0 ... 6553.5 ms

Factory Setting: 6553.5

Properties: ro, 16bit

Description:

Shortest average execution time of a scan cycle recorded since the product was energized.

P704: Maximum Scan Cycle

Adjustable Range: 0.0 ... 6553.5 ms

Factory Setting: 0.0

Properties: ro, 16bit

Description:

Longest average execution time of a scan cycle recorded since the product was energized.

2.1.6 Watchdog

Parameters related to the system watchdog.

The watchdog is automatically enabled if an abnormal situation occurs with the product, and it stops responding. In this case, the watchdog automatically restarts the product, and the application is placed in Stop.

Parameter P50 can be used to check whether a system watchdog occurred. This parameter will be non-zero in such cases.

Parameters P52...P84 are used to store product data at the moment the watchdog took place, so that it is easier to detect which problem generated the watchdog. These parameters will be requested by the support team, if necessary.

Parameter P86 shows the date and time of the last watchdog occurred in the system.



DANGER!

In cases of watchdog, all product outputs are de-energized, and the product is restarted with the application in Stop and the product in fault mode.

P50: System watchdog: Code

Adjustable Range: 0 ... 65535
Properties: ro, 32bit

Factory Setting: 0

Description:

If the system watchdog occurs, it indicates the error code detected by the product.

P52...P84: Watchdog - Data

Adjustable Range: 0 ... 4294967295
Properties: ro, 32bit

Factory Setting: 0

Description:

Data automatically saved at the moment of the product last watchdog.

Such data is for WEG's internal use and must be reported to support.

This data is saved in the parameter table and is deleted with a "clear errors" command (P200 = 1) or by restarting the product.

- If an error occurs, and this data is requested by support, it is possible to retrieve the values related to the last error as follows:
- Send the "Load flash parameters" command (P204 = 2).

P86: Watchdog - Date/Time

Adjustable Range: 0 ... 4294967295
Properties: ro, date and time epoch

Factory Setting: 1704070861

Description:

Date and time when the last system watchdog occurred.

2.1.7 Date and time

P192: Date/Hour

Adjustable Range: 0 ... 4294967295
Properties: ro, date and time epoch

Factory Setting: 1704070861

Description:

PRODUCT

Date and time of the product Real Time Clock (RTC).

The parameter value is in Epoch format, which is seconds counted from January 1, 1970 at 00:00:00.

2.2 CONFIGURATION

It allows accessing the product setting parameters.

2.2.1 Communication

Communication Errors

It allows setting the operation for the communication interfaces and related protocols.

P624: Action for Communication Error

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	rw, enum		

Description:

It allows configuring the protection tripping mode for communication error.

Indication	Description
0 = Alarm	No action is taken; an alarm is indicated.
1 = Fault	It actuates on the outputs as programmed in the error mode of each output (P0904 and P0906 for the main unit outputs. For the accessories, check the parameter for each model and position).

I/O Data

It sets the cyclic data exchange area of the communication networks. Defines a set of 16-bits parameters to be read via communication network.

P873: Readings Quantity

Adjustable Range:	1 ... 50	Factory Setting:	2
Properties:	rw, 8bit		

Description:

It sets the number of programmable reading words for data exchange with the network.

P15000...P15049: Read Word

Adjustable Range:	0 ... 65535	Factory Setting:	0
Properties:	rw, 16bit		

Description:

It selects the address (Net Id) of the parameter whose content should be provided in the reading area for the fieldbus interfaces.

The size of the referenced parameter must be taken into account. If the data size is greater than 16 bits, the configuration parameter of the next programmable word must be set to the same address.

It defines a set of 16-bit parameters to be written via communication network.

P875: Writings Quantity

Adjustable Range:	1 ... 50	Factory Setting:	2
Properties:	rw, 8bit		

Description:

It sets the number of programmable writing words for data exchange with the network.

P15250...P15299: Write Word

Adjustable Range:	0 ... 65535	Factory Setting:	0
Properties:	rw, 16bit		

Description:

It selects the address (Net Id) of the parameter whose content should be provided in the writing area for the fieldbus interfaces.

The size of the referenced parameter must be taken into account. If the data size is greater than 16 bits, the configuration parameter of the next programmable word must be set to the same address.

Serial RS485

Configuration of the RS485 communication interface and the protocols that use this interface.

For a detailed description, refer to the CFW900 Modbus-RTU Communication Manual, available in electronic format.

P624: Action for Communication Error

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	rw, enum		

Description:

It allows configuring the protection tripping mode for communication error.

Indication	Description
0 = Alarm	No action is taken; an alarm is indicated.
1 = Fault	It actuates on the outputs as programmed in the error mode of each output (P0904 and P0906 for the main unit outputs. For the accessories, check the parameter for each model and position).

Ethernet

Settings for the product Ethernet interface.

For a detailed description, see the Ethernet Communication Manual RUW200, available in electronic format.

P798: ETH - Enable protocols

Adjustable Range:	0 ... 1 Bit	Factory Setting:	0
Properties:	rw, 16bit		

PRODUCT

Description:

It allows enabling and disabling functionalities of some protocols, limiting the exposure of the RUW200 via network.

Bit	Value/Description
Bit 0 Web Server	0: Protocol disabled. 1: Protocol enabled.

P850: ETH - IP Address Settings

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	rw, enum		

Description:

It allows you to program how the IP address should be set on the product.

Indication	Description
0 = Static IP	The IP address, subnet mask and gateway must be set through parameters P0852 to P0856.
1 = DHCP	Enables the DHCP function. The IP address and other network settings are received from a DHCP server via network.

P852: ETH - IP Address

Adjustable Range:	0.0.0.0 to 255.255.255.255	Factory Setting:	192.168.1.10
Properties:	rw, ip addr		

Description:

It allows setting the IP address of the Ethernet interface. It only takes effect if P0850 = Parameters.

P855: ETH - Network Mask

Adjustable Range:	0 ... 31	Factory Setting:	24
Properties:	rw, enum		

Description:

It allows setting the subnet mask of the Ethernet interface. It only takes effect if P0850 = Parameters.

The following table shows the allowable values for CIDR and the equivalent dot-separated notation for the subnet mask:

Indication	Description
0 = Not used	Not used.
1 = 128.0.0.0	Subnet mask
2 = 192.0.0.0	Subnet mask
3 = 224.0.0.0	Subnet mask
4 = 240.0.0.0	Subnet mask
5 = 248.0.0.0	Subnet mask
6 = 252.0.0.0	Subnet mask
7 = 254.0.0.0	Subnet mask
8 = 255.0.0.0	Subnet mask
9 = 255.128.0.0	Subnet mask
10 = 255.192.0.0	Subnet mask
11 = 255.224.0.0	Subnet mask

Indication	Description
12 = 255.240.0.0	Subnet mask
13 = 255.248.0.0	Subnet mask
14 = 255.252.0.0	Subnet mask
15 = 255.254.0.0	Subnet mask
16 = 255.255.0.0	Subnet mask
17 = 255.255.128.0	Subnet mask
18 = 255.255.192.0	Subnet mask
19 = 255.255.224.0	Subnet mask
20 = 255.255.240.0	Subnet mask
21 = 255.255.248.0	Subnet mask
22 = 255.255.252.0	Subnet mask
23 = 255.255.254.0	Subnet mask
24 = 255.255.255.0	Subnet mask. Factory setting.
25 = 255.255.255.128	Subnet mask
26 = 255.255.255.192	Subnet mask
27 = 255.255.255.224	Subnet mask
28 = 255.255.255.240	Subnet mask
29 = 255.255.255.248	Subnet mask
30 = 255.255.255.252	Subnet mask
31 = 255.255.255.254	Subnet mask

P856: ETH - Gateway

Adjustable Range:	0.0.0.0 to 255.255.255.255	Factory Setting:	0.0.0.0
Properties:	rw, ip addr		

Description:

It allows setting the IP address of the default gateway for the Ethernet interface. It only takes effect if P0850 = Parameters.

P890: ETH - Interface Control

Adjustable Range:	0 ... 3 Bit	Factory Setting:	9
Properties:	rw, 16bit		

Description:

It configures the Ethernet network interface. Each bit represents a configuration.

Bit	Value/Description
Bit 0 Auto Negotiate Link	0: Autonegotiation inactive on link 1: Autonegotiation active on link
Bit 1 Speed Link	0: 10 Mbit/s on link 1: 100 Mbit/s on link
Bit 2 Forced Duplex Link	0: Half duplex on link 1: Full duplex on link

EtherNet/IP

It allows programming how the writing and reading data exchange of the EtherNet/IP network protocol should be using the Ethernet interface of the RUW200.

P871: EIP - I/O instances

Adjustable Range:	0 ... 10	Factory Setting:	10
Properties:	rw, enum		

Description:

It allows to select which instance of the Assembly class is used when exchanging I/O data with the network scanner. Para a descrição detalhada, consulte o manual de comunicação (usuário) de acordo com a interface utilizada. Estes manuais estão disponíveis para download no site: www.weg.net.

Indication	Description
0 ... 9 = Not used	Not used.
10 = 102/152 Config I/O data	In these instances it is possible to program up to 50 parameters of the equipment itself for reading and/or 50 for writing via network.

Modbus TCP

It allows programming the settings of the Modbus TCP network protocol using the Ethernet interface of the RUW200.

P864: MBTCP - Connection Timeout

Adjustable Range:	0 ... 65535 s	Factory Setting:	65
Properties:	rw, 16bit		

Description:

Connection time in Modbus TCP communication.

After opening a Modbus TCP connection, if the equipment does not receive valid telegrams within the period programmed in this parameter, it will end the communication.

P865: MBTCP - TCP Port

Adjustable Range:	0 ... 65535	Factory Setting:	502
Properties:	rw, 16bit		

Description:

It allows setting the number of the TCP port used for Modbus TCP connections.

Port 502 is the default TCP port for Modbus TCP connections, and it is always available. If you want an additional port to establish Modbus TCP connections, you can set the number of another TCP port in this parameter.



NOTE!

After changing this property, the device must be turned off and back on to effect the modifications.

P868: MBTCP - Timeout

Adjustable Range:	0.0 ... 999.0 s	Factory Setting:	0.0
Properties:	rw, 16bit		

Description:

Time to detect interruption in Modbus TCP communication.

Time counting will start from the first valid telegram received.

The value 0.0 disables this function.

MQTT**P844: MQTT - Enable/Disable**

Adjustable Range:	0 ... 2	Factory Setting:	1
Properties:	rw, enum		

Description:

Allow user to enable, disable or enable only the MQTT publish feature (no subscription).

Indication	Description
0 = Disable	Disable the MQTT client.
1 = Enable	Enable the MQTT client for publishing and subscribing.
2 = Enable only publish	Enable the MQTT client for publishing only.

SNTP**P770: SNTP - Server 1**

Adjustable Range:	0.0.0.0 to 255.255.255.255	Factory Setting:	0.0.0.0
Properties:	rw, ip addr		

Description:

It allows programming the IP address of the NTP primary server. If the value is zero, the NTP client is disabled.

P774: SNTP - Server 2

Adjustable Range:	0.0.0.0 to 255.255.255.255	Factory Setting:	0.0.0.0
Properties:	rw, ip addr		

Description:

It allows programming the IP address of the NTP secondary server.

P779: SNTP - Update Interval

Adjustable Range:	0 ... 65535	Factory Setting:	0
Properties:	rw, 16bit		

Description:

It indicates the NTP server date and time update interval. If the value is zero, the NTP client is disabled. The minimum interval is 15 seconds.

CAN

P624: Action for Communication Error

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	rw, enum		

Description:

It allows configuring the protection tripping mode for communication error.

Indication	Description
0 = Alarm	No action is taken; an alarm is indicated.
1 = Fault	It actuates on the outputs as programmed in the error mode of each output (P0904 and P0906 for the main unit outputs. For the accessories, check the parameter for each model and position).

2.2.2 Inputs / Outputs

P902: Digital Outputs (DOs)

Adjustable Range:	0 ... 4 Bit	Factory Setting:	0
Properties:	rw, 32bit		

Description:

It allows writing to the digital outputs of the main unit through a DWORD (32bit) in which DO1 is represented by the least significant bit.

E.g.: To activate DO1 and DO4 just set P902 = 9 decimal or 00000000000000000000000000001001 binary.

Figure [Figure 2.1 on page 2-21](#) shows the behavior of the product's digital outputs in case of program stoppage or product failure.

P906: Digital Outputs Error Value

Adjustable Range: 0 ... 4294967295

Factory Setting: 0

Properties: rw, 32bit

Description:

This parameter sets the value that the digital output must assume in the event of an internal error. The value of each digital output is represented by a bit of this DWORD (32 bits) with DO1 being the least significant bit. It is necessary to configure P904 for that.

E.g.: Considering P904 = 9 decimal or 0000000000000000000000001001 binary, for DO1 to be at low level and DO4 at high level, simply write P906 = 8 decimal or 0000000000000000000000001000 binary.

P908: Update I/Os in stop

Adjustable Range: 0 ... 1 Bit

Factory Setting: 0

Properties: rw, 16bit

Description:

Configures the behavior of inputs/outputs when the program is stopped.

If selected, the I/Os are updated with the program in stop.

Bit	Value/Description
Bit 0 = Select	If bit selected, it activates the parameter.

P909: Output behavior in stop

Adjustable Range: 0 ... 255

Factory Setting: 0

Properties: rw, enum

Description:

It sets the behavior of the outputs when the program is stopped.



ATTENTION!

This parameter guarantees the state of the outputs only when the program is stopped. If parameter P908 is set to update the outputs with the program stopped, the output values can be updated at any time if, for example, the PLC is a network slave, and the master sends a command for the outputs to be updated even with the PLC in stop mode.

Indication	Description
0 = Force outputs to the default value	It forces all outputs to the default value (0 V).
1 = Keep the actual values	It keeps the value of the outputs.

P910...P913: Quick output settings

Adjustable Range: 0 ... 255

Factory Setting: 0

Properties: rw, enum

Description:

It sets quick output.

Indication	Description
0 = Digital output (DO)	Digital output mode.
1 = PWM	PWM output mode.

P920...P926: PWM frequency

Adjustable Range:	0 ... 300000	Factory Setting:	0
Properties:	rw, 32bit		

Description:

Fast output frequency in Hz (it must be set to PWM).

P930...P933: PWM pulse width

Adjustable Range:	0 ... 1000	Factory Setting:	0
Properties:	rw, 16bit		

Description:

Add help at: 930_pwmDuty

Fast output pulse width in percentage (0 to 100.0%)(it must be set to PWM).

P940: Counter 1 / DI1 - DI2

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	rw, enum		

Description:

Selects the operating mode of the product inputs from the available options.

**NOTE!**

The parameter will only take effect after downloading the application or after restarting the product (if the parameter is saved using the P204).

Indication	Description
0 = Digital Inputs	It sets both inputs to digital inputs.
1 = Quadrature	It sets the two inputs to count pulses from a quadrature encoder.
2 = Pulse and Direction	Configures the inputs to read an encoder/counter with pulse and direction signal (See table "Description of digital inputs" in the User Manual - Function 3).
3 = Counter and digital input	Configures one input as a fast counter and the other as a common digital input (See table "Description of digital inputs" in the User Manual - Function 4).

P941: Counter 2 / DI3 - DI4

Adjustable Range: 0 ... 255

Factory Setting: 0

Properties: rw, enum

Description:

Selects the operating mode of the product inputs from the available options.



NOTE!

The parameter will only take effect after downloading the application or after restarting the product (if the parameter is saved using the P204).

Indication	Description
0 = Digital Inputs	It sets both inputs to digital inputs.
1 = Quadrature	It sets the two inputs to count pulses from a quadrature encoder.
2 = Pulse and Direction	Configures the inputs to read an encoder/counter with pulse and direction signal (See table "Description of digital inputs" in the User Manual - Function 3).
3 = Counter and digital input	Configures one input as a fast counter and the other as a common digital input (See table "Description of digital inputs" in the User Manual - Function 4).

P942: Counter 3 / DI5 - DI6

Adjustable Range: 0 ... 255

Factory Setting: 0

Properties: rw, enum

Description:

Selects the operating mode of the product inputs from the available options.



NOTE!

The parameter will only take effect after downloading the application or after restarting the product (if the parameter is saved using the P204).

Indication	Description
0 = Digital Inputs	It sets both inputs to digital inputs.
1 = Quadrature	It sets the two inputs to count pulses from a quadrature encoder.
2 = Pulse and Direction	Configures the inputs to read an encoder/counter with pulse and direction signal (See table "Description of digital inputs" in the User Manual - Function 3).
3 = Counter and digital input	Configures one input as a fast counter and the other as a common digital input (See table "Description of digital inputs" in the User Manual - Function 4).

P943: Counter 4 / DI7 - DI8

Adjustable Range: 0 ... 255

Factory Setting: 0

Properties: rw, enum

Description:

Selects the operating mode of the product inputs from the available options.

**NOTE!**

The parameter will only take effect after downloading the application or after restarting the product (if the parameter is saved using the P204).

Indication	Description
0 = Digital Inputs	It sets both inputs to digital inputs.
1 = Quadrature	It sets the two inputs to count pulses from a quadrature encoder.
2 = Pulse and Direction	Configures the inputs to read an encoder/counter with pulse and direction signal (See table "Description of digital inputs" in the User Manual - Function 3).
3 = Counter and digital input	Configures one input as a fast counter and the other as a common digital input (See table "Description of digital inputs" in the User Manual - Function 4).

P948: Counter - Reverse direction

Adjustable Range:	0 ... 4 Bit	Factory Setting:	0
Properties:	rw, 16bit		

Description:

Parameter that inverts the direction signal of the product fast counters when set to the "Pulse and direction" mode.

The parameter will only take effect after downloading the application or after restarting the product (if the parameter is saved using the P204).

Table 2.33: The following table shows the counting direction taking into account the signal on the direction pin and also the value configured in the parameter.

Counting direction	Input	Parameter (bit)
Counting direction	Low level (0V)	0 (Default)
Increment the counter	High Level (24V)	0 (Default)
Decrements the counter	Low level (0V)	1 (Inverted)
Decrements the counter	High Level (24V)	1 (Inverted)

Bit	Value/Description
Bit 0 = Counter 1	0 = Default direction. 1 = Reversed direction.
Bit 1 = Counter 2	0 = Default direction. 1 = Reversed direction.
Bit 2 = Counter 3	0 = Default direction. 1 = Reversed direction.
Bit 3 = Counter 4	0 = Default direction. 1 = Reversed direction.

P979: Resets Counter

Adjustable Range:	0 ... 4 Bit	Factory Setting:	0
Properties:	rw, 16bit		

Description:

Resets the current count value.

Bit	Value/Description
Bit 0 = Counter 1	1 = Resets the count value of counter 1.
Bit 1 = Counter 2	1 = Resets the count value of counter 2.
Bit 2 = Counter 3	1 = Resets the count value of counter 3.

PRODUCT

Bit	Value/Description
Bit 3 = Counter 4	1 = Resets the count value of counter 4.

2.2.3 Flash

P204: Load parameters

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	rw, enum		

Description:

It load parameters according to the options in the table below.

NOTE: if command 1 (save parameters to Flash) is executed, during the next producto initializations, the parameters will be retrieved from the flash memory automatically. This allows making and maintaining an initial configuration of the producto when powering down. To disable this feature, just give a command 4 (load factory settings).



NOTE!

The parameters are sent to the product and saved in Flash Memory every time an application is downloaded.



NOTE!

The maximum quantity of writings allowed to the Flash Memory is 100 thousand, so do not use this parameter cyclically.

Indication	Description
0 = External Flash Memory	No action.
1 = Save Parameters to Flash	It saves the parameters to the flash memory.
2 = It loads Parameters from Flash	It retrieves parameters saved to the flash memory.
3 = Restart product	It restarts the product.
4 = It loads Factory Settings	It loads factory settings (parameters and ladder application).
5 = It Resets the Expansions	Reconfigure expansions. Can be used when adding new modules. It Resets the expansions. It can be used when adding new modules.

2.2.4 Clear Errors

P200: Clear Errors

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	rw, 8bit		

Description:

When set to 1, it clears errors and alarms.



NOTE!

It is necessary to clear the errors so that the program can be sent to RUN.

2.2.5 Date and time

P194: Set Date/Time

Adjustable Range:	0 ... 4294967295	Factory Setting:	1704070861
Properties:	rw, date and time epoch		

Description:

Setting of the product's Real Time Clock (RTC) date and time.

The parameter value is in Epoch format, which is seconds counted from January 1, 1970 at 00:00:00.

P196: Time Zone

Adjustable Range:	0 ... 52	Factory Setting:	24
Properties:	rw, enum		

Description:

Setting of the time zone where the product is applied.

The options are shown in the table below.

Indication	Description
0 = UTC-12:00	Time Zone.
1 = UTC-11:30	Time Zone.
2 = UTC-11:00	Time Zone.
3 = UTC-10:30	Time Zone.
4 = UTC-10:00	Time Zone.
5 = UTC-09:30	Time Zone.
6 = UTC-09:00	Time Zone.
7 = UTC-08:30	Time Zone.
8 = UTC-08:00	Time Zone.
9 = UTC-07:30	Time Zone.
10 = UTC-07:00	Time Zone.
11 = UTC-06:30	Time Zone.
12 = UTC-06:00	Time Zone.
13 = UTC-05:30	Time Zone.
14 = UTC-05:00	Time Zone.
15 = UTC-04:30	Time Zone.
16 = UTC-04:00	Time Zone.
17 = UTC-03:30	Time Zone.
18 = UTC-03:00	Time Zone.
19 = UTC-02:30	Time Zone.
20 = UTC-02:00	Time Zone.
21 = UTC-01:30	Time Zone.
22 = UTC-01:00	Time Zone.
23 = UTC-00:30	Time Zone.
24 = UTC+00:00	Time Zone.
25 = UTC+00:30	Time Zone.
26 = UTC+01:00	Time Zone.
27 = UTC+01:30	Time Zone.
28 = UTC+02:00	Time Zone.
29 = UTC+02:30	Time Zone.
30 = UTC+03:00	Time Zone.
31 = UTC+03:30	Time Zone.
32 = UTC+04:00	Time Zone.

Indication	Description
33 = UTC+04:30	Time Zone.
34 = UTC+05:00	Time Zone.
35 = UTC+05:30	Time Zone.
36 = UTC+06:00	Time Zone.
37 = UTC+06:30	Time Zone.
38 = UTC+07:00	Time Zone.
39 = UTC+07:30	Time Zone.
40 = UTC+08:00	Time Zone.
41 = UTC+08:30	Time Zone.
42 = UTC+09:00	Time Zone.
43 = UTC+09:30	Time Zone.
44 = UTC+10:00	Time Zone.
45 = UTC+10:30	Time Zone.
46 = UTC+11:00	Time Zone.
47 = UTC+11:30	Time Zone.
48 = UTC+12:00	Time Zone.
49 = UTC+12:30	Time Zone.
50 = UTC+13:00	Time Zone.
51 = UTC+13:30	Time Zone.
52 = UTC+14:00	Time Zone.

P190: Disable RTC

Adjustable Range:	0 ... 1 Bit	Factory Setting:	0
Properties:	rw, 16bit		

Description:

It disables the system real-time clock (RTC).

By disabling the RTC, the retention time of retentive variables is increased. See the technical specifications for more details.

Bit	Value/Description
Bit 0 = Select	If bit selected, it activates the parameter.

2.3 USER

It allows accessing the user parameters.

P800...P838: User Parameter

Adjustable Range:	-2147483648 ... 2147483647	Factory Setting:	0
Properties:	rw, s32bit		

Description:

User parameters. They can be accessed via network or ladder and used in user logics.

3 SLOT 1

Parameters for reading slot 1.



NOTE!

The description of the parameters of the other accessories (Slot2, Slot3...Slot8) is the same as for Slot1, changing only the parameter number, according to the logic shown at the beginning of this manual. E.g.: P1102, P1202, P1302, P1n02 represent the digital outputs of Slots 1, 2, 3 and "n", respectively.

3.1 DIGITAL INPUT/OUTPUT

Readings of the inputs and writing to the digital outputs.

3.1.1 Digital Outputs (DOs)

Parameter for writing to the digital outputs.

P1102: Slot 1 - Digital Outputs (DOs)

Adjustable Range: 0 ... 24 Bit

Factory Setting: 0

Properties: rw, 32bit

Description:

It allows writing to the digital outputs through a DWORD (32bit) in which the first output (DO01) is represented by the least significant bit.

E.g.: To activate DO01, DIO2, DO05 and DO10, just set P1102 = 531 decimal or 0000000000000000000000001000010011 binary.

Bit	Value/Description
Bit 0 = DO01	Digital output DO01.
Bit 1 = DO02	Digital output DO02.
Bit 2 = DO03	Digital output DO03.
Bit 3 = DO04	Digital output DO04.
Bit 4 = DO05	Digital output DO05.
Bit 5 = DO06	Digital output DO06.
Bit 6 = DO07	Digital output DO07.
Bit 7 = DO08	Digital output DO08.
Bit 8 = DO09	Digital output DO08.
Bit 9 = DO10	Digital output DO09.
Bit 10 = DO11	Digital output DO11.
Bit 11 = DO12	Digital output DO12.
Bit 12 = DO13	Digital output DO13.
Bit 13 = DO14	Digital output DO14.
Bit 14 = DO15	Digital output DO15.
Bit 15 = DO16	Digital output DO16.
Bit 16 = DO17	Digital output DO17.
Bit 17 = DO18	Digital output DO18.
Bit 18 = DO19	Digital output DO19.
Bit 19 = DO20	Digital output DO20.
Bit 20 = DO21	Digital output DO21.
Bit 21 = DO22	Digital output DO22.
Bit 22 = DO23	Digital output DO23.
Bit 23 = DO24	Digital output DO24.

SLOT 1

3.1.2 Digital Inputs (DIs)

Parameter for reading digital inputs.

P1100: Slot 1 - Digital Inputs (DIs)

Adjustable Range:	0 ... 24 Bit	Factory Setting:	0
Properties:	ro, 32bit		

Description:

It allows reading the accessory digital inputs through a DWORD (32bit) in which the first input (DI01) is represented by the least significant bit.

Ex: DI01, DI02, DI05 and DI10 at high level, and the others at low level, then we would have P1100 = 531 decimal or 000000000000000000001000010011 binary.

Bit	Value/Description
Bit 0 = DI01	Digital input DI01.
Bit 1 = DI02	Digital input DI02.
Bit 2 = DI03	Digital input DI03.
Bit 3 = DI04	Digital input DI04.
Bit 4 = DI05	Digital input DI05.
Bit 5 = DI06	Digital input DI06.
Bit 6 = DI07	Digital input DI07.
Bit 7 = DI08	Digital input DI08.
Bit 8 = DI09	Digital input DI09.
Bit 9 = DI10	Digital input DI10.
Bit 10 = DI11	Digital input DI11.
Bit 11 = DI12	Digital input DI13.
Bit 12 = DI13	Digital input DI13.
Bit 13 = DI14	Digital input DI14.
Bit 14 = DI15	Digital input DI15.
Bit 15 = DI16	Digital input DI16.
Bit 16 = DI17	Digital input DI17.
Bit 17 = DI18	Digital input DI18.
Bit 18 = DI19	Digital input DI19.
Bit 19 = DI20	Digital input DI20.
Bit 20 = DI21	Digital input DI21.
Bit 21 = DI22	Digital input DI22.
Bit 22 = DI23	Digital input DI23.
Bit 23 = DI24	Digital input DI24.

3.1.3 Configuration

It allows configuring slot 1.

P1104: Slot 1 - Error Mode of the Digital Outputs

Adjustable Range:	0 ... 4294967295	Factory Setting:	0
Properties:	rw, 32bit		

Description:

This parameter defines whether or not a digital output receives a pre-defined value in P1106 in the event of an internal error. Each digital output is represented by a bit of this DWORD (32 bits), the least significant for DO01.

- 0- The output value is maintained in the event of an error;
- 1- The output value assumes the value defined in parameter P1106.

This parameter defines whether or not a digital output receives a predefined value in P1106 in case of an internal error. Each digital output is represented by a bit of this DWORD (32 bits), the least significant being for DO1.

bit at 0 - The output value corresponding to the bit is maintained in case of error;

bit at 1 - The output value corresponding to the bit assumes the value defined in parameter P1106.

P1106: Slot 1 - Error Value

Adjustable Range: 0 ... 4294967295

Factory Setting: 0

Properties: rw, 32bit

Description:

In this parameter, the value that the digital output should assume in case of an internal error. The value of each digital output is represented by one bit of this DWORD (32 bits) DO01 being the least significant bit. It is necessary to configure P1104 for this.

This parameter sets the value that the digital output must assume in the event of an internal error. The value of each digital output is represented by a bit of this DWORD (32 bits) with DO1 being the least significant bit. It is necessary to configure P1104 for that.

3.2 ANALOG INPUT (AI, TH, RTD)

Parameters that allow configuring and reading the analog input expansions (AI) in voltage and current, thermocouple expansion (TH) type J, K or T and PT100 or PT1000 thermistors (RTD).

3.2.1 Configuration

Settings of the slot channels.

Active Channel

P3135...P3141: Slot 1 - Active Analog Input Channel

Adjustable Range: 0 ... 2

Factory Setting: 1

Properties: rw, enum

Description:

It enables or disables the analog channel according to the table below.

P3135, P3136...P3141 represent CH1, CH2...CH7.

*CJC: cold junction compensation.

Indication	Description
0 = ai: Inactive / th: Inactive / rtd: Inactive	MOD2-7AI= Disable channel MOD2-7AI= Disable channel MOD5-4RTD= Disable channel
1 = ai: Active / th: Active with CJC / rtd: Active	MOD2-7AI= Enable MOD4-7TH= Enable with CJC* MOD5-4RTD= Enable
2 = ai: Reserv / th: Active without CJC / rtd: Reserv	MOD2-7AI= Not used MOD4-7TH= Enable without CJC* MOD5-4RTD= Not used

SLOT 1

Channel Type

Parameter that defines the type of analog input J, K or T for thermocouple module, PT100 or PT1000 for thermistor (RTD), or 0-10 V, 0-20 mA or 4-20 mA for analog input in voltage or current.

P3142...P3148: Slot 1 - Analog Input Channel Type

Adjustable Range:	0 ... 2	Factory Setting:	0
Properties:	rw, enum		

Description:

Sets the type of analog input channel.

P3142, P3143 ... P3148 represent CH1, CH2 ... CH7.

It sets the analog input channel type.

P3142, P3143...P3148 represent CH1, CH2...CH7.

Indication	Description
0 = ai: 0-10V / th: J / rtd: PT100	MOD2-7AI= 0-10V MOD4-7TH - Type T MOD5-4RTD - PT100
1 = ai: 0-20mA / th: K / rtd: PT1000	MOD2-7AI - 0-20 mA MOD4-7TH - Type T MOD5-4RTD - PT1000
2 = ai: 4-20mA / th: T / rtd: Reserv	MOD2-7AI - 4-20 mA MOD4-7TH - Type T MOD5-4RTD - Reserved

Channel Unit

Setting of the channel measurement.

P3149...P3155: Slot 1 - Analog Input Channel Unit 1

Adjustable Range:	0 ... 2	Factory Setting:	0
Properties:	rw, enum		

Description:

The unit of the reading value is defined according to the table below.

P3149, P3150 ... P3155 represent CH1, CH2 ... CH7.

The reading value unit is defined according to the table below.

P3149, P3150...P3155 represent CH1, CH2...CH7.

Indication	Description
0 = ai: Not used/ th: °C / rtd: °C	MOD2-7AI - Not used MOD4-7TH - °C MOD5-4RTD - °C
1 = ai: Not used/ th: °F / rtd: °F	MOD2-7AI - Not used MOD4-7TH - °F MOD5-4RTD - °F
2 = ai: Not used / th: K / rtd: K	MOD2-7AI - Not used MOD4-7TH - K MOD5-4RTD - K

Channel Decimal Digit

Setting the number of decimal digits of the reading value.

P3156...P3162: Slot 1 - Decimal Digit of the Analog Input Channel

Adjustable Range:	0 ... 3	Factory Setting:	1
Properties:	rw, enum		

Description:

Sets the number of decimal digits for the channel.

Example: if the value read is 1.234 V and the configured number of decimal places is 2, the content of the P3100 will be 123. If the configured number of decimal places is 1, the content will be 12.

P3156, P3157 ... P3162 represent CH1, CH2 ... CH7.

It defines the number of digits for the channel.

Example: if the value read is 1.234 V, and the number of decimal places configured is 2, the content of P3100 will be 123. If the number of decimal places configured is 1, the content will be 12.

P3156, P3157...P3162 represent CH1, CH2...CH7.

Indication	Description
0 = ai: 0 / th: 0 / rtd: 0	MOD2-7AI - 0 decimal digits. MOD4-7TH - 0 decimal digits. MOD5-4RTD - 0 decimal digits.
1 = ai: 1 / th: 1 / rtd: 1	MOD2-7AI - 1 decimal digit. MOD4-7TH - 1 decimal digit. MOD5-4RTD - 1 decimal digit.
2 = ai: 2 / th: 1 / rtd: 1	MOD2-7AI - 2 decimal digits. MOD4-7TH - 1 decimal digit. MOD5-4RTD - 1 decimal digit.
3 = ai: 3 / th: 1 / rtd: 1	MOD2-7AI - 3 decimal digits. MOD4-7TH - 1 decimal digit. MOD5-4RTD - 1 decimal digit.

Channel filter

The filter is the average of the last read values, according to what is configured in the object.

The filter is the average of the last values read, according to what is set in the object.

P3163...P3169: Slot 1 - Filter of the Analog Input Channel

Adjustable Range:	0 ... 5	Factory Setting:	4
Properties:	rw, enum		

Description:

This moving average filter stores the last X values read (2, 4, 8, 16 or 32) and averages them. In the next sample the first value stored in the buffer is discarded, the new value added at the end and the mean is again calculated.

P3163, P3164 ... P3169 represent CH1, CH2 ... CH7

This moving average filter stores the last X values read (2, 4, 8, 16 or 32) and averages them. In the next sample, the first value stored in the buffer is discarded, the new value added to the end, and the average is calculated again.

P3163, P3164...P3169 represent CH1, CH2...CH7

SLOT 1

Indication	Description
0 = No Filter	0- No filter. 0 – no filter.
1 = Average of 2 Values	1 – average of the last 2 values.
2 = Average of 4 Values	2 – average of the last 4 values.
3 = Average of 8 Values	2 – average of the last 8 values.
4 = Average of 16 Values	2 – average of the last 16 values.
5 = Average of 32 Values	5 – average of the last 32 values.

Channel Gain

P3170...P3176: Slot 1 - Gain of the Analog Input Channel

Adjustable Range:	-32768 ... 32767	Factory Setting:	1000
Properties:	rw, s16bit		

Description:

Gain applied to the processed signal after adding the offset. The gain must be multiplied by 1000, that is, for a gain 1, the object must receive the value 1000, for a gain 0.5 the object must receive 500.

P3170, P3171 ... P3176 represent CH1, CH2 ... CH7.

Gain applied to the processed signal after adding the offset. The gain must be multiplied by 1000, that is, for a gain 1, the object should receive value 1000, for a gain of 0.5, the object should receive 500.

P3170, P3171...P3176 represent CH1, CH2...CH7.

Channel Offset

P3178...P3184: Slot 1 - Offset of the Analog Input Channel

Adjustable Range:	-32768 ... 32767	Factory Setting:	0
Properties:	rw, s16bit		

Description:

Offset to be added to the processed value. The offset value is in the configured unit of measurement (V, mA, °C...) and according to decimal places.

Example: for an offset of -1.23V and two configured decimal places, this parameter should receive the value -123.

P3178, P3179 ... P3184 represent CH1, CH2 ... CH7.

Offset to be added to the processed value. The offset value is in the configured unit of measurement (V, mA, °C, °F...) and according to the decimal places.

Example: for an offset of -1.23 V and two decimal places configured, this parameter must receive the value -123.

P3178, P3179...P3184 represent CH1, CH2...CH7.

3.2.2 Status

It allows the reading of the analog input values and the status of the respective analog channel.

It allows reading the analog input values and the configuration status of the respective analog channel.

16-Bit Analog Input

It allows reading the 16-bit analog input.

P3100...P3106: Slot 1 - 16-bit analog input

Adjustable Range:	-32768 ... 32767	Factory Setting:	0
Properties:	ro, s16bit		

Description:

Reading value of the analog input channel in the unit of measurement and decimal digits, as configured. P3100, P3101, P3102 ... P3106 represent CH1, CH2, CH3 ... CH7.

Reading value of the analog input channel in the unit of measurement and decimal places, as configured. P3100, P3101, P3102...P3106 represent CH1, CH2, CH3...CH7.

Analog Channel Status

It allows accessing the analog channel status configuration.

P3107...P3113: Slot 1 - Analog Channel Status

Adjustable Range:	0 ... 2	Factory Setting:	0
Properties:	ro, enum		

Description:

The status of the analog channel can be read according to the table below. P3107, P3108 ... P3113 represent CH1, CH2 ... CH7.

The status of the analog channel can be read according to the table below. P3107, P3108...P3113 represent CH1, CH2...CH7.

Indication	Description
0 = ai: Inactive / th: Inactive / rtd: Inactive	MOD2-7AI - 0 = Disabled. MOD4-7TH - 0 = Disabled. MOD5-4RTD - 0 = Disabled.
1 = ai: Active / th: Active / rdt: Active	MOD2-7AI - 1 = Enabled. MOD4-7TH - 1 = Enabled. MOD5-4RTD - 1 = Enabled.
2 = ai: Open / th: Open / rtd: Open	MOD2-7AI - 2 = Open Channel. MOD4-7TH - 2 = Open Channel. MOD5-4RTD - 2 = Open Channel.

3.3 ANALOG OUTPUT

Parameters to setup and writing to the analog output.

Parameters that allow configuring and writing to the analog output.

3.3.1 Configuration

Error Mode, Channel Gain and Offset Configuration.

SLOT 1

Error Mode

P5108...P5115: Slot 1 - Analog Output Error Mode

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	rw, 8bit		

Description:

This parameter defines the action of the analog output in case of an internal error, as follows:

0- Keeps the current output value;

1- Change the output value to the value defined in P5116...P5123.

P5108, P5109...P5115 represent CH1, CH2...CH8.

Error Value

P5116...P5123: Slot 1 - Analog Output Error Value

Adjustable Range:	-32768 ... 32767	Factory Setting:	0
Properties:	rw, s16bit		

Description:

This parameter defines the analog output value in case of an internal error.

NOTE: P5108...P5115 must be set to 1 in order to take effect.

P5116, P5117...P5123 represent CH1, CH2...CH8.

Channel Gain

P5132...P5139: Slot 1 - Analog Output Channel Gain

Adjustable Range:	0 ... 65535	Factory Setting:	1000
Properties:	rw, 16bit		

Description:

Gain of the analog channel. The read signal is multiplied by the gain and the resulting value is added to the offset. The gain value is with 3 decimal digits.

Example: if the parameter contains the value 1000, the gain will be 1. If the parameter contains 500, the gain will be 0.5.

Analog channel gain where the read signal is multiplied by the gain, and the resulting value is added to the offset. The gain value has 3 decimal places, that is, if the parameter contains the value 1000, the gain will be 1. If the parameter contains 500, the gain will be 0.5.

Channel Offset

It allows setting the offset of the analog output channel.

P5140...P5147: Slot 1 - Analog Output Channel Offset

Adjustable Range: -32768 ... 32767

Factory Setting: 0

Properties: rw, s16bit

Description:

Offset to be added after multiplying the value read by the gain (P5132 ... P5139). The offset value is a value of 16 signed bits (-32768 ... 32767).

Example: for an offset of 5 V the object must have the decimal value 16383, for an offset of 2.5 V the object must have the value 8192.

Offset to be added after multiplying the value read by the gain (P5132...P5139). The offset value is a 16-bit value with signal (-32768...32767).

Example: for an offset of 5 V, the object must have the decimal value 16383, for an offset of 2.5 V, the object must have the value 8192.

3.3.2 16-Bit Analog Output Value**P5100...P5107: Slot 1 - 16-Bit Analog Output**

Adjustable Range: -32768 ... 32767

Factory Setting: 0

Properties: rw, s16bit

Description:

Through this parameter it is possible to define the value of the analog output in which 0 = 0 V (or 0 mA) and 32767 = 10 V (or 20 mA).

P5100, P5101 ... P5107 represent CH1, CH2 ... CH8.

Through this parameter it is possible to define the value of the analog output in which 0 = 0 V(or 0 mA) and 32767 = 10 V(or 20 mA).

P5100, P5101...P5107 represent CH1, CH2...CH8.

3.4 ANALOG INPUT (SG)

It allows the setup of the analog input to read load cells (strain gauge, SG).

It allows configuring the analog input to read load cells (strain gauge, SG).

3.4.1 Configuration

Add help at: 2_4_1_configuration

Channel Enable**P7118...P7119: Slot 1 - Enables Analog Channel**

Adjustable Range: 0 ... 1

Factory Setting: 1

Properties: rw, enum

Description:

SLOT 1

This parameter enables the reading of the corresponding channel of load cell (P7118 for CH1 and P7119 for CH2). If the channel is disabled, the reading objects will be set to zero.

It enables the reading of the corresponding channel (P7118 for CH1 and P7119 for CH2). If the channel is disabled, the reading objects will have value zero.

Indication	Description
0 = Inactive	It disables the channel.
1 = Active	It enables the channel.

Channel Unit

P7120...P7121: Slot 1 - Analog Channel Unit

Adjustable Range:	0 ... 2	Factory Setting:	0
Properties:	rw, enum		

Description:

It allows to define the unit for load cell according to the table below:

It allows defining the SG analog channel unit according to the table below:

Indication	Description
0 = g	Gram unit.
1 = kg	Kilogram unit.
2 = t	Ton unit.

Channel filter

P7122...P7123: Slot 1 - Analog Channel Filter

Adjustable Range:	0 ... 5	Factory Setting:	4
Properties:	rw, enum		

Description:

Moving average filter of the last values read, according to the settings of P7122 for CH1 and P7123 for CH2.

This moving average filter stores the last X values read (2, 4, 8, 16 or 32) and averages them. In the next sample, the first value stored in the buffer is discarded, the new value added to the end of the buffer, and the average is calculated again. For each sample, the maximum and minimum values can be discarded to calculate the average, according to P7140 and P7141.

Indication	Description
0 = No Filter	0- No filter. 0 – no filter.
1 = Average of 2 Values	1 – average of the last 2 values.
2 = Average of 4 Values	2 – average of the last 4 values.
3 = Average of 8 Values	2 – average of the last 8 values.
4 = Average of 16 Values	2 – average of the last 16 values.
5 = Average of 32 Values	5 – average of the last 32 values.

Channel Gain

P7124...P7125: Slot 1 - Analog Channel Gain

Adjustable Range:	-32768 ... 32767	Factory Setting:	1000
Properties:	rw, s16bit		

Description:

Gain applied to the processed signal after adding the offset. The gain must be multiplied by 1000, that is, for a gain 1, the parameter must receive the value 1000, for a gain 0.5, the object must receive 500. P7124 for CH1 and P7125 for CH2.

Gain applied to the processed signal after adding the offset. The gain must be multiplied by 1000, that is, for a gain of 1, the parameter must receive the value 1000, for a gain of 0.5, the object must receive 500. P7124 for CH1 and P7125 for CH2.

Channel Offset

P7126...P7128: Slot 1 - Analog Channel Offset

Adjustable Range:	-2147483648 ... 2147483647	Factory Setting:	0
Properties:	rw, s32bit		

Description:

Offset value to be added to the processed value, which can be positive or negative. The offset is in the unit set in P7120 and according to the full scale. P7126 for CH1 and P7128 for CH2.

Offset and gain setting: the input signal is added to the offset (in the user unit: g, kg or ton). The resulting value is multiplied by the gain.

To do the initial adjustment, leave the module without load, correct the offset and transfer the setting. Next, after checking that the offset has been corrected (scale indicating zero), put a known weight (at least 70 is recommended)%.

Channel Full Scale

P7130...P7131: Slot 1 - Analog Channel Full Scale

Adjustable Range:	0 ... 65535	Factory Setting:	10000
Properties:	rw, 16bit		

Description:

Object with the full scale of the load cell (maximum load). For example, for a load cell of up to 10 Kg, configuring the full scale with the value 10000 (10000 grams), the object with the value read P7100 will have the load value in grams.

Object with the full scale of the load cell (maximum load). For example, for a load cell of up to 10 Kg, setting the full scale value to 10000 (10000 grams), the object with the value read P7100 will have the load value in grams.

SLOT 1

Channel Sensitivity

P7132...P7133: Slot 1 - Analog Channel Sensitivity

Adjustable Range:	0 ... 255	Factory Setting:	2
Properties:	rw, 8bit		

Description:

Object with load cell sensitivity in mV / V.
P7132 for CH1 and P7133 for CH2.

Object with the load cell sensitivity in mV/V.
P7132 for CH1 and P7133 for CH2.

Channel Sampling Rate

P7134...P7135: Slot 1 - Analog Channel Sampling Rate

Adjustable Range:	0 ... 6	Factory Setting:	4
Properties:	rw, enum		

Description:

Set the sample rate for each channel according to the table below.

NOTE: If both channels were enabled, the sampling time will be the sum of the time of the two channels.

Example: for the default value, the channel will be read every 36.27ms when only one of them is enabled. If both channels are enabled, the reading will be done every 72.54ms.

It sets the sampling rate of each channel according to the table below.

NOTE: If both channels are enabled, the sampling time will be the sum of the times of the two channels.

Example: for the default value, the channel will be read every 36.27 ms when only one of them is enabled. If both channels are enabled, the reading will be performed every 72.54 ms.

Indication	Description
0 = 1.68 SPS (596.12 ms)	1.68 samples per second (every 596.12ms)
1 = 3.35 SPS (298.06 ms)	3.35 samples per second (every 298.06ms)
2 = 6.71 SPS (149.03 ms)	6.71 samples per second (every 149.03ms)
3 = 13.42 SPS (74.52 ms)	13.42 samples per second (every 74.52ms)
4 = 26.83 SPS (36.27 ms)	26.83 samples per second (every 36.27ms)
5 = 53.66 SPS (18.64 ms)	53.66 samples per second (every 18.64ms)
6 = 107.32 SPS (9.32 ms)	107.32 samples per second (every 9.32ms)
7 = 214.64 SPS (4,66 ms)	214.64 samples per second (every 4,66 ms)

Maximum Channel Variation

P7136...P7138: Slot 1 - Maximum Analog Channel Variation

Adjustable Range:	0 ... 4294967295	Factory Setting:	100000
Properties:	rw, 32bit		

Description:

Maximum allowable variation of the current reading from the previous reading. Object in the configured unit of

measure. Example: it can be configured to avoid sudden variations in reading due to moving loads, etc. The lower the value, the longer the system will take to stabilize.

Maximum allowable variation of the present reading in relation to the previous reading. Object in the configured unit of measurement.

Example: it can be configured to avoid sudden changes in the reading due to moving loads etc. The lower the value, the longer it will take the system to stabilize.

Discard Maximum and Minimum Value

P7140...P7141: Slot 1 - Analog Channel Discard Value

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	rw, enum		

Description:

It allows to discard the maximum and minimum buffer values of the moving average configured in the P7122 filter, eliminating possible unwanted variations.

Example: If configured to discard, the buffer is completely traversed with each new sample, the maximum and the minimum are discarded and the average is made with the remaining values.

It allows discarding the maximum and minimum values of the moving average buffer configured in the P7122 filter, eliminating possible unwanted variations.

Example: If configured to discard, the entire buffer is completely scanned at each new sample, the maximum and minimum values are discarded and the remaining values are averaged.

Indication	Description
0 = Maintain	The maximum and minimum values are KEPT. The maximum and minimum values are KEPT.
1 = Discard	The maximum and minimum values are DISCARDED. The maximum and minimum values are DISCARDED.

Filter Time Constant

P7142...P7143: Slot 1 - Analog Channel Filter

Adjustable Range:	0 ... 65535	Factory Setting:	0
Properties:	rw, 16bit		

Description:

Time constant in milliseconds of the first order low pass filter.

First-order low-pass filter time constant in milliseconds.

Channel Variation Step

P7144...P7145: Slot 1 - Analog Channel Variation Step

Adjustable Range:	0 ... 4	Factory Setting:	0
Properties:	rw, enum		

Description:

SLOT 1

Step of the variation of the last digit transmitted in the weighing values (P7100, P7101, P7102 and P7104), as table:

Variation step of the last digit transmitted in the weighing values (P7100, P7101, P7102 and P7104), according to the table:

Indication	Description
0 = step 1 (000, 001, 002, 003...)	Variation step 1 (000, 001, 002, 003...).
1 = step 2 (000, 002, 004, 006 ...)	Variation step 2 (000, 002, 004, 006...).
2 = step 5 (000, 005, 010, 015...)	Variation step 5 (000, 005, 010, 015...).
3 = step 10 (000, 010, 020, 030...)	Variation step 10 (000, 010, 020, 030...).
4 = step 50 (000, 050, 100, 150...)	Variation step 50 (000, 050, 100, 150...).

3.4.2 Status

Weight (g, kg, t) 16 Bits

P7100...P7101: Slot 1 - Weight (g, kg, t) 16 Bit

Adjustable Range:	-32768 ... 32767	Factory Setting:	0
Properties:	ro, s16bit		

Description:

16-Bits parameter with the weight in the configured unit (g, kg, ton) and according to sensitivity, full scale, gain and offset.

Weight (g, kg, t) 32 Bits

P7102...P7104: Slot 1 - Weight (g, kg, t) 32 Bit

Adjustable Range:	-2147483648 ... 2147483647	Factory Setting:	0
Properties:	ro, s32bit		

Description:

32-Bits parameter with the weight in the configured unit (g, kg, ton) and according to sensitivity, full scale, gain and offset.

SG Analog Channel Status

It allows identifying whether the SG analog channel is enabled or not.

P7106...P7107: Slot 1 - Analog Channel Status

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	ro, enum		

Description:

This parameter allows to check the status of the channel according to the table:

This parameter allows checking the channel status according to the table:

Indication	Description
0 = Inactive	It disables the channel.
1 = Active	It enables the channel.

3.5 STARTER MANAGER (SCW)

It allows configuring the starter manager expansions (*Smart Connection*).

3.5.1 Status

Starter manager monitoring parameters.

Product Information

Starter manager information parameters.

P1100: Slot 1 - Digital Inputs (DIs)

Adjustable Range:	0 ... 24 Bit	Factory Setting:	0
Properties:	ro, 32bit		

Description:

It allows reading the accessory digital inputs through a DWORD (32bit) in which the first input (DI01) is represented by the least significant bit.

Ex: DI01, DI02, DI05 and DI10 at high level, and the others at low level, then we would have P1100 = 531 decimal or 000000000000000000001000010011 binary.

Bit	Value/Description
Bit 0 = DI01	Digital input DI01.
Bit 1 = DI02	Digital input DI02.
Bit 2 = DI03	Digital input DI03.
Bit 3 = DI04	Digital input DI04.
Bit 4 = DI05	Digital input DI05.
Bit 5 = DI06	Digital input DI06.
Bit 6 = DI07	Digital input DI07.
Bit 7 = DI08	Digital input DI08.
Bit 8 = DI09	Digital input DI09.
Bit 9 = DI10	Digital input DI10.
Bit 10 = DI11	Digital input DI11.
Bit 11 = DI12	Digital input DI13.
Bit 12 = DI13	Digital input DI13.
Bit 13 = DI14	Digital input DI14.
Bit 14 = DI15	Digital input DI15.
Bit 15 = DI16	Digital input DI16.
Bit 16 = DI17	Digital input DI17.
Bit 17 = DI18	Digital input DI18.
Bit 18 = DI19	Digital input DI19.
Bit 19 = DI20	Digital input DI20.
Bit 20 = DI21	Digital input DI21.
Bit 21 = DI22	Digital input DI22.
Bit 22 = DI23	Digital input DI23.
Bit 23 = DI24	Digital input DI24.

P9102: Slot1 - CPU Temperature

Adjustable Range:	-100 ... 100 °C	Factory Setting:	0
Properties:	ro, s8bit		

Description:

It is possible to read the internal temperature of the MOD8.00 - SCW microcontroller in °C, in real time, updated every 1 second. If this temperature reaches 90 °C, an alarm is generated. Note that this is the junction temperature of the microcontroller, that is, it is higher than the temperature inside the product.

Starters

Information parameters about the starters, such as contactor closing/opening time, starter status etc.

P9110...P9125: Slot1 - P1..P4 - Tempo de Fechamento/Abertura Contator C1..C2

Adjustable Range:	0 ... 65535 ms	Factory Setting:	0
Properties:	ro, 16bit		

Description:

It informs the closing and opening time in ms (milliseconds) of each contactor, for each starter (only in the starter mode), that is, the time elapsed between the energization of the coil until the effective closing of the electrical contact, and the time elapsed between the de-energization of the coil until the effective opening of the electrical contact.

P9130...P9144: Slot1 - P1..P4 - Contador de manobras C1..C2

Adjustable Range:	0 ... 10000000	Factory Setting:	0
Properties:	ro, 32bit		

Description:

It informs the number of operations of each contactor for each starter (only in starter mode). The counters are incremented each time the contact of the respective contactor closes. These counters are stored in non-volatile memory (memory NV), that is, they are not lost when the product is turned off.

The counters are automatically saved every 10 minutes, so you may lose some operations that have not been saved in case the product is turned off. If you want to save the operations immediately, use the command: "Save operation counters in the NV memory".

If it is necessary to reset any counter, in case of contactor change, for example, use the command "Reset Operation Counter".

P9160, P9162, P9164, P9166: Slot1 - Status P1..P4 - Partida

Adjustable Range:	0 ... 15	Factory Setting:	0
Properties:	ro, enum		

Description:

It shows the current status of the starter set.

Indication	Description
1 = Stop OK	Starter set in stop mode.
2 = De-energized coil	Contacts closed even with the coil de-energized.
3 = Starter OK.	Starter activated successfully.
4 = Energized coil	Contacts open even with the coil energized.

P9161, P9163, P9165, P9167: Slot1 - P1..P4 - Direção e erros

Adjustable Range:	0 ... 3 Bit	Factory Setting:	0
Properties:	ro, 16bit		

Description:

It indicates the current direction, error and active alarm (if any).

Active errors/alarms can be checked in the Last Error/Alarm parameters.

Bit	Value/Description
Bit 0 = Direction	Forward starter if bit in 0, reversing if bit in 1.
Bit 1 = Active error	Starter in error if bit in 1. To identify which error is active, check the "Last error" parameter.
Bit 2 = Active Alarm	Starter in alarm if bit in 1. To identify which alarm is active, check the "Last alarm" parameter.

Errors and Alarms

Parameters for identifying faults in the starters.

P9170...P9173: Slot1 - P1..P4 - Último Erro

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	ro, enum		

Description:

It shows the last error (or active error) occurred in the starter.

Indication	Description
0 = No Error	No errors occurred.
1 = Stuck Contact	This error occurs when the contact is already closed when turning on the contactor, or when the contact remains closed when turning it off. If the coil of a contactor is de-energized, and within the contactor timeout the contact does not open, this error is also generated.
2 = Burned Coil	It is indicated when the contactor coil is energized and the contactor contacts will not close after the timeout has elapsed.
3 = Contactor Opened	It is indicated if the contactor contacts open with the coil still energized.
4 = Transparent Mode	This error is generated when written direct or reverse starter commands, but the respective starter is in transparent mode (see Operating Modes).
5 = Wrong Contactor	Auxiliary contactor inverted.

P9175...P9178: Slot1 - P1..P4 - Último Alarme

Adjustable Range:	0 ... 255	Factory Setting:	0
Properties:	ro, enum		

Description:

It shows the last alarm (or active alarm) that occurred on the starter.

Indication	Description
0 = No Alarm	No alarms occurred.
1 = Starter On	Alarm generated in case of trying to start a starter that is already on.
2 = Air Circuit Breaker	This alarm occurs if a start command is given, and it is detected that the circuit breaker remains open. If the starter in question has no circuit breaker, ignore this alarm.
3 = CPU overtemperature	Alarm generated if the junction temperature is greater than or equal to 90 °C.

3.5.2 Configurations

Add help at: 2_5_2_configurations

Starters

Starter settings parameters.

P9180...P9183: Slot1 - P1..P4 - Modo de Operação

Adjustable Range:	0 ... 1	Factory Setting:	0
Properties:	rw, 8bit		

Description:

The MOD8.00 - SCW has two operating modes: Starter and Transparent. The factory default value is “0 = Starter”, which facilitates the control, monitoring and diagnostics of the components of a direct and reversing starter.

In the transparent mode, the inputs and outputs of the respective connector can be used to enable and read devices such as lamps, contactors, auxiliary contacts, pushbuttons etc. Each RJ45 connector consists of three digital inputs and two digital outputs, and each connector can be configured independently.

To read/write an input/output of a starter that has been set to transparent mode, just read/write on the digital I/Os parameters of the slot.

Indication	Description
0 = Starter	Operation mode selected as starter.
1 = Transparent	Operation mode selected as transparent.

P9185...P9188: Slot1 - P1..P4 - Timeout Contator C1..C2

Adjustable Range:	20 ... 5000 ms	Factory Setting:	500
Properties:	rw, 16bit		

Description:

In the starter operation mode “0 = Starter”, when the contactor coil is energized, the actuation of the contactor contacts is monitored by the MOD8.00 - SCW to check that the contactor has closed. Likewise, when the coil is de-energized, it is checked that the contactor contacts have actually opened.

The maximum time for opening and closing the contacts is set in these parameters.

The opening and closing times of each contactor are informed in “Contactor Opening Time” and “Contactor Closing Time”. In case the time set as timeout is exceeded, a Burnt Coil Alarm (the contacts did not close) or Stuck Contact (the contacts did not open) is generated.

P9103: Slot1 - Factory Reset

Adjustable Range: 0 ... 65535

Factory Setting: 0

Properties: rw, 16bit

Description:

Through this parameter, it is possible to load the factory settings and reset the errors of starters 1 to 4 saved to the memory.

For a factory reset, write the value "1234" in this parameter. MOD8.00 - SCW returns to the starter mode for all ports and assumes contactor timeout = 500 ms.

To reset the errors of starter 1, write "1111".

To reset the errors of starter 2, write "2222".

To reset the errors of starter 3, write "3333".

To reset the errors of starter 4, write "4444".

Counters

Parameters for manually resetting or saving the operation count.

P9150: Slot1 - Saves Operation Counters to the NV memory

Adjustable Range: 0 ... 1

Factory Setting: 0

Properties: rw, 8bit

Description:

This command is used if you want to immediately save the operation counters to non-volatile memory. Just write "1" to this address in order to force the immediate recording of the operation counters.

The value is returned to zero (false) after the recording procedure is performed.

P9151...P9158: Slot1 - P1..P4 - Reseta contador de manobras C1..C2

Adjustable Range: 0 ... 65535

Factory Setting: 0

Properties: rw, 16bit

Description:

If it is necessary to reset any counter, in case of contactor change, for example, use the commands "Reset Operation Counter".

Each counter is reset individually.

Commands

Control parameters of the starters.

P9190: Slot1 - Direct Starter Command**Adjustable Range:** 0 ... 4 Bit**Factory Setting:** 0**Properties:** rw, 16bit**Description:**

In the "0 = Starter" mode, this is the command responsible for turning on each of the four starters forward, or that is, it activates contactor 1 of the respective RJ45 port. Each of the four least significant bits represents a starter, which can be activated individually or combined to drive more than one starter simultaneously.

Examples:

Value = 1: turn on forward starter 1 (P1).

Value = 5: turn on forward starters 1 and 3 (P1 and P3).

Value = 15: turn on all forward starters (P1 to P4).

Bit	Value/Description
Bit 0 = Starter 1 - forward	Forward starter.
Bit 1 = Starter 2 - forward	Forward starter.
Bit 2 = Starter 3 - forward	Forward starter.
Bit 3 = Starter 4 - forward	Forward starter.

P9191: Slot1 - Reverse Starter Command**Adjustable Range:** 0 ... 4 Bit**Factory Setting:** 0**Properties:** rw, 16bit**Description:**

In the "0 = Starter" mode, this is the command responsible for turning on each of the four starters in reverse, that is, it activates contactor 2 of the respective RJ45 port. Each of the four least significant bits represents a starter, which can be set individually or in combination.

Examples:

Value = 4: turn on reverse starter 3 (P3).

Value = 6: turn on reverse starter 2 and 3 (P2 and P3).

Value = 15: turn all reverse starters (P1 to P4).

Bit	Value/Description
Bit 0 = Starter 1 - reverse	Reverse starter.
Bit 1 = Starter 2 - reverse	Reverse starter.
Bit 2 = Starter 3 - reverse	Reverse starter.
Bit 3 = Starter 4 - reverse	Reverse starter.

P9192: Slot1 - Stop Command**Adjustable Range:** 0 ... 4 Bit**Factory Setting:** 0**Properties:** rw, 16bit**Description:**

In the "0 = Starter" mode, this is the command responsible for turning off each of the four starters. Each of the four least significant bits represents a starter, which can be set individually or in combination.

Examples:

Value = 8: turn off starter 4 (P4).

Value = 3: turn off starter 1 and 2 (P1 and P2).

Value = 15: turn off all starters (P1 to P4).

Bit	Value/Description
Bit 0 = Starter 1 - turn off	Turns off starter
Bit 1 = Starter 2 - turn off	Turns off starter
Bit 2 = Starter 3 - turn off	Turns off starter
Bit 3 = Starter 4 - turn off	Turns off starter

P1102: Slot 1 - Digital Outputs (DOs)**Adjustable Range:** 0 ... 24 Bit**Factory Setting:** 0**Properties:** rw, 32bit**Description:**

It allows writing to the digital outputs through a DWORD (32bit) in which the first output (DO01) is represented by the least significant bit.

E.g.: To activate DO01, DIO2, DO05 and DO10, just set P1102 = 531 decimal or 000000000000000000001000010011 binary.

Bit	Value/Description
Bit 0 = DO01	Digital output DO01.
Bit 1 = DO02	Digital output DO02.
Bit 2 = DO03	Digital output DO03.
Bit 3 = DO04	Digital output DO04.
Bit 4 = DO05	Digital output DO05.
Bit 5 = DO06	Digital output DO06.
Bit 6 = DO07	Digital output DO07.
Bit 7 = DO08	Digital output DO08.
Bit 8 = DO09	Digital output DO08.
Bit 9 = DO10	Digital output DO09.
Bit 10 = DO11	Digital output DO11.
Bit 11 = DO12	Digital output DO12.
Bit 12 = DO13	Digital output DO13.
Bit 13 = DO14	Digital output DO14.
Bit 14 = DO15	Digital output DO15.
Bit 15 = DO16	Digital output DO16.
Bit 16 = DO17	Digital output DO17.
Bit 17 = DO18	Digital output DO18.
Bit 18 = DO19	Digital output DO19.
Bit 19 = DO20	Digital output DO20.
Bit 20 = DO21	Digital output DO21.
Bit 21 = DO22	Digital output DO22.

SLOT 1

Bit	Value/Description
Bit 22 = DO23	Digital output DO23.
Bit 23 = DO24	Digital output DO24.

4 QUICK REFERENCES

Table 4.1: Parameters quick reference

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Product - Status						
Product - Status - Firmware Version/Revision/Model						
P0401	Product Model	0 = PLC200 1 = PLC201 2 = RUW200 3 = RUW201 4 = Versión inválida	-	ro, enum	0	401
P0402	Models (Slots) - 1	5 = MOD3.00 - 8 AОВ 6 = MOD3.10 - 8 AOV 7 = MOD7.00 - 6RE 16 = MOD1.00 - 24DI 17 = MOD1.10 - 24DO 18 = MOD1.30 - 08DO/16DI 19 = MOD1.20 - 16DO/08DI 128 = MOD2.00 - 7 AI 129 = MOD4.00 - 7 TH 130 = MOD5.00 - 4 RTD 131 = MOD6.00 - 2 SG 239 = MOD8.00 - SCW 255 = Not Connected	-	ro, enum	0	402
	Models (Slots) - 2					403
	Models (Slots) - 3					404
	Models (Slots) - 4					405
	Models (Slots) - 5					406
	Models (Slots) - 6					407
	Models (Slots) - 7					408
	Models (Slots) - 8					409
P0500	Firmware Version of the Product.	0.0 to 99.9999	-	ro, 32bit	4	500
P0502	Firmware Version (Slots) - 1	0.0 to 19.99	-	ro, 16bit	2	502
	Firmware Version (Slots) - 2					503
	Firmware Version (Slots) - 3					504
	Firmware Version (Slots) - 4					505
	Firmware Version (Slots) - 5					506
	Firmware Version (Slots) - 6					507
	Firmware Version (Slots) - 7					508
	Firmware Version (Slots) - 8					509

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P0540	Bootloader Version	20.0 to 60.0	-	ro, 32bit	4	540
P0560	Product Serial Number	0 to 4294967295	-	ro, 32bit	0	560
P0400	Number of Slots	0 to 255	-	ro, 8bit	0	400
Product - Status - Communication						
Product - Status - Communication - Ethernet						
P0846	ETH - Actual IP Address	0:0:0:0 to 255:255:255:255	0:0:0:0	ro, ip addr	0	846
P0889	ETH - Interface Status	Bit 0 = Link 1 Bit 1 = Link 2 Bit 2 ... 7 = Reserved	-	ro, 16bit	0	889
P0891	ETH - MAC Address	00:00:00:00:00:00 to FF:FF:FF:FF:FF:FF	-	ro, mac addr	0	891
Product - Status - Communication - EtherNet/IP						
P0869	EIP - Scanner Status	0 = Run 1 = Idle	-	ro, enum	0	869
P0870	EIP - Communication Status	0 = Inactive 1 = No connection 2 = Connected 3 = Timeout in I/O connection 4 = Duplicate IP	-	ro, enum	0	870
P0886	EIP - DLR Topology	0 = Linear 1 = Ring	-	ro, enum	0	886
P0887	EIP - DLR Status	0 = Idle State 1 = Normal State 2 = Fault State	-	ro, enum	0	887
Product - Status - Communication - Modbus TCP						
P0860	MBTCP - Communication Status	0 = Inactive 1 = No connection 2 = Connected 3 = Timeout Error	-	ro, enum	0	860
P0861	MBTCP - Received Telegrams	0 to 65535	-	ro, 16bit	0	861
P0862	MBTCP - Transmitted Telegrams	0 to 65535	-	ro, 16bit	0	862
P0863	MBTCP - Active Connections	0 to 4	-	ro, 8bit	0	863
Product - Status - Communication - MQTT						
P0841	MQTT - Status	0 = Inactive	-	ro, enum	0	841

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		1 = No Connection 2 = Connected (Pub) 3 = Connected (Pub/Sub) 4 = Connection fail				
P0842	Last Public. MQTT	0 to 4294967295	-	ro, date and time epoch	0	842
Product - Status - Communication - SNTP						
P0778	SNTP - Status	0 = Inactive 1 = No Connection 2 = Connected	-	ro, enum	0	778
P0780	SNTP - Last Update	0 to 4294967295	-	ro, date and time epoch	0	780
Product - Status - Inputs						
P0900	Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08	-	ro, 32bit	0	900
P0950	Counter Value - 1 Counter Value - 2 Counter Value - 3 Counter Value - 4	-2147483648 to 2147483647	-	ro, s32bit	0	950 952 954 956
P0970	Counter Direction - 1 Counter Direction - 2 Counter Direction - 3 Counter Direction - 4	0 = Count up 1 = Countdown	-	ro, enum	0	970 971 972 973
Product - Status - Errors and Faults						
P0100	Last 5 faults - 1 Last 5 faults - 2 Last 5 faults - 3 Last 5 faults - 4 Last 5 faults - 5	0 = NO ERROR 1 = RS485 TIMEOUT	-	ro, enum	0	100 101 102 103 104

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 ... 3 = RESERVED 4 = CAN BUS OFF 5 = RESERVED 6 = CAN INITIALIZATION ERROR 7 = CAN ENABLE ERROR 8 = CANOPEN NODE GUARD ERROR 9 = CANOPEN HEARTBEAT ERROR 10 = HW WATCHDOG 11 ... 13 = INTERNAL ERROR 14 = RETENTIVE MEMORY 15 = FLASH MEMORY 50% 16 = FLASH MEMORY 100% 17 = NUMBER OF ACCESSORIES EXCEEDED 18 = INTRABUS ADDRESSING ERROR 19 = INTRABUS IDENTIFICATION ERROR 20 = INTERNAL ERROR 21 = SLOT 1 IDENTIFICATION ERROR 22 = SLOT 2 IDENTIFICATION ERROR 23 = SLOT 3 IDENTIFICATION ERROR 24 = SLOT 4 IDENTIFICATION ERROR 25 = SLOT 5 IDENTIFICATION ERROR 26 = SLOT 6 IDENTIFICATION ERROR 27 = SLOT 7 IDENTIFICATION ERROR 28 = SLOT 8 IDENTIFICATION ERROR 29 ... 30 = INTERNAL ERROR 31 = SLOT 1 INTRABUS TIMEOUT 32 = SLOT 2 INTRABUS TIMEOUT 33 = SLOT 3 INTRABUS TIMEOUT 34 = SLOT 4 INTRABUS TIMEOUT 35 = SLOT 5 INTRABUS TIMEOUT 36 = SLOT 6 INTRABUS TIMEOUT 37 = SLOT 7 INTRABUS TIMEOUT 38 = SLOT 8 INTRABUS TIMEOUT 39 ... 40 = INTERNAL ERROR 41 = SLOT 1 INTRABUS CRC ERROR 42 = SLOT 2 INTRABUS CRC ERROR 43 = SLOT 3 INTRABUS CRC ERROR 44 = SLOT 4 INTRABUS CRC ERROR 45 = SLOT 5 INTRABUS CRC ERROR 46 = SLOT 6 INTRABUS CRC ERROR				

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		47 = SLOT 7 INTRABUS CRC ERROR 48 = SLOT 8 INTRABUS CRC ERROR 49 ... 50 = INTERNAL ERROR 51 = SLOT 1 INTRABUS COMMAND ERROR 52 = SLOT 2 INTRABUS COMMAND ERROR 53 = SLOT 3 INTRABUS COMMAND ERROR 54 = SLOT 4 INTRABUS COMMAND ERROR 55 = SLOT 5 INTRABUS COMMAND ERROR 56 = SLOT 6 INTRABUS COMMAND ERROR 57 = SLOT 7 INTRABUS COMMAND ERROR 58 = SLOT 8 INTRABUS COMMAND ERROR 59 ... 70 = INTERNAL ERROR 71 = EXTERNAL FLASH 72 = TIMEOUT MBTCP 73 = TIMEOUT SNTP 74 = LOW BATTERY 75 = SCANNER IN IDLE 76 = ETHERNET IP OFFLINE 77 = PROGRAM WATCHDOG				
P0105	Last 5 Alarms - 1 Last 5 Alarms - 2 Last 5 Alarms - 3 Last 5 Alarms - 4 Last 5 Alarms - 5	0 = NO ERROR 1 = RS485 TIMEOUT 2 ... 3 = RESERVED 4 = CAN BUS OFF 5 = RESERVED 6 = CAN INITIALIZATION ERROR 7 = CAN ENABLE ERROR 8 = CANOPEN NODE GUARD ERROR 9 = CANOPEN HEARTBEAT ERROR 10 = HW WATCHDOG 11 ... 13 = INTERNAL ERROR	-	ro, enum	0	105 106 107 108 109

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		14 = RETENTIVE MEMORY 15 = FLASH MEMORY 50% 16 = FLASH MEMORY 100% 17 = NUMBER OF ACCESSORIES EXCEEDED 18 = INTRABUS ADDRESSING ERROR 19 = INTRABUS IDENTIFICATION ERROR 20 = INTERNAL ERROR 21 = SLOT 1 IDENTIFICATION ERROR 22 = SLOT 2 IDENTIFICATION ERROR 23 = SLOT 3 IDENTIFICATION ERROR 24 = SLOT 4 IDENTIFICATION ERROR 25 = SLOT 5 IDENTIFICATION ERROR 26 = SLOT 6 IDENTIFICATION ERROR 27 = SLOT 7 IDENTIFICATION ERROR 28 = SLOT 8 IDENTIFICATION ERROR 29 ... 30 = INTERNAL ERROR 31 = SLOT 1 INTRABUS TIMEOUT 32 = SLOT 2 INTRABUS TIMEOUT 33 = SLOT 3 INTRABUS TIMEOUT 34 = SLOT 4 INTRABUS TIMEOUT 35 = SLOT 5 INTRABUS TIMEOUT 36 = SLOT 6 INTRABUS TIMEOUT 37 = SLOT 7 INTRABUS TIMEOUT 38 = SLOT 8 INTRABUS TIMEOUT 39 ... 40 = INTERNAL ERROR 41 = SLOT 1 INTRABUS CRC ERROR 42 = SLOT 2 INTRABUS CRC ERROR 43 = SLOT 3 INTRABUS CRC ERROR 44 = SLOT 4 INTRABUS CRC ERROR 45 = SLOT 5 INTRABUS CRC ERROR 46 = SLOT 6 INTRABUS CRC ERROR 47 = SLOT 7 INTRABUS CRC ERROR 48 = SLOT 8 INTRABUS CRC ERROR 49 ... 50 = INTERNAL ERROR 51 = SLOT 1 INTRABUS COMMAND ERROR 52 = SLOT 2 INTRABUS COMMAND ERROR 53 = SLOT 3 INTRABUS COMMAND ERROR				

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		54 = SLOT 4 INTRABUS COMMAND ERROR 55 = SLOT 5 INTRABUS COMMAND ERROR 56 = SLOT 6 INTRABUS COMMAND ERROR 57 = SLOT 7 INTRABUS COMMAND ERROR 58 = SLOT 8 INTRABUS COMMAND ERROR 59 ... 70 = INTERNAL ERROR 71 = EXTERNAL FLASH 72 = TIMEOUT MBTCP 73 = TIMEOUT SNTP 74 = LOW BATTERY 75 = SCANNER IN IDLE 76 = ETHERNET IP OFFLINE 77 = PROGRAM WATCHDOG				
Product - Status - Program						
P0099	Program Status	0 = Stopped 1 = Running 2 = No program 3 = Invalid 4 = Installing	-	ro, enum	0	99
Product - Status - Program - Counter/Scan Cycle						
P0700	Counter 100us	0 to 4294967295	-	ro, 32bit	0	700
P0702	Scan Cycle	0.0 to 6553.5 ms	-	ro, 16bit	1	702
P0703	Minimum Scan Cycle	0.0 to 6553.5 ms	-	ro, 16bit	1	703
P0704	Maximum Scan Cycle	0.0 to 6553.5 ms	-	ro, 16bit	1	704
Product - Status - Watchdog						
P0050	System watchdog: Code	0 to 65535	-	ro, 32bit	0	50
P0052	Watchdog - Data - 1	0 to 4294967295	-	ro, 32bit	0	52
	Watchdog - Data - 2					54
	Watchdog - Data - 3					56
	Watchdog - Data - 4					58
	Watchdog - Data - 5					60
	Watchdog - Data - 6					62
	Watchdog - Data - 7					64
	Watchdog - Data - 8					66
	Watchdog - Data - 9					68
	Watchdog - Data - 10					70

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Watchdog - Data - 11					72
	Watchdog - Data - 12					74
	Watchdog - Data - 13					76
	Watchdog - Data - 14					78
	Watchdog - Data - 15					80
	Watchdog - Data - 16					82
	Watchdog - Data - 17					84
P0086	Watchdog - Date/Time	0 to 4294967295	-	ro, date and time epoch	0	86
Product - Status - Date and time						
P0192	Date/Hour	0 to 4294967295	-	ro, date and time epoch	0	192
Product - Configuration						
Product - Configuration - Communication						
Product - Configuration - Communication - Communication Errors						
P0624	Action for Communication Error	0 = Alarm 1 = Fault	0	rw, enum	0	624
Product - Configuration - Communication - I/O Data						
P0873	Readings Quantity	1 to 50	2	rw, 8bit	0	873
P15000	Read Word - 1	0 to 65535	0	rw, 16bit	0	15000
	Read Word - 2					15001
	Read Word - 3					15002
	Read Word - 4					15003
	Read Word - 5					15004
	Read Word - 6					15005
	Read Word - 7					15006
	Read Word - 8					15007
	Read Word - 9					15008
	Read Word - 10					15009
	Read Word - 11					15010
	Read Word - 12					15011
	Read Word - 13					15012
	Read Word - 14					15013
	Read Word - 15					15014
	Read Word - 16					15015
	Read Word - 17					15016
	Read Word - 18					15017
	Read Word - 19					15018
	Read Word - 20					15019
	Read Word - 21					15020

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Read Word - 22					15021
	Read Word - 23					15022
	Read Word - 24					15023
	Read Word - 25					15024
	Read Word - 26					15025
	Read Word - 27					15026
	Read Word - 28					15027
	Read Word - 29					15028
	Read Word - 30					15029
	Read Word - 31					15030
	Read Word - 32					15031
	Read Word - 33					15032
	Read Word - 34					15033
	Read Word - 35					15034
	Read Word - 36					15035
	Read Word - 37					15036
	Read Word - 38					15037
	Read Word - 39					15038
	Read Word - 40					15039
	Read Word - 41					15040
	Read Word - 42					15041
	Read Word - 43					15042
	Read Word - 44					15043
	Read Word - 45					15044
	Read Word - 46					15045
	Read Word - 47					15046
	Read Word - 48					15047
	Read Word - 49					15048
	Read Word - 50					15049
P0875	Writings Quantity	1 to 50	2	rw, 8bit	0	875
P15250	Write Word - 1	0 to 65535	0	rw, 16bit	0	15250
	Write Word - 2					15251
	Write Word - 3					15252
	Write Word - 4					15253
	Write Word - 5					15254
	Write Word - 6					15255
	Write Word - 7					15256
	Write Word - 8					15257
	Write Word - 9					15258
	Write Word - 10					15259
	Write Word - 11					15260
	Write Word - 12					15261

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Write Word - 13					15262
	Write Word - 14					15263
	Write Word - 15					15264
	Write Word - 16					15265
	Write Word - 17					15266
	Write Word - 18					15267
	Write Word - 19					15268
	Write Word - 20					15269
	Write Word - 21					15270
	Write Word - 22					15271
	Write Word - 23					15272
	Write Word - 24					15273
	Write Word - 25					15274
	Write Word - 26					15275
	Write Word - 27					15276
	Write Word - 28					15277
	Write Word - 29					15278
	Write Word - 30					15279
	Write Word - 31					15280
	Write Word - 32					15281
	Write Word - 33					15282
	Write Word - 34					15283
	Write Word - 35					15284
	Write Word - 36					15285
	Write Word - 37					15286
	Write Word - 38					15287
	Write Word - 39					15288
	Write Word - 40					15289
	Write Word - 41					15290
	Write Word - 42					15291
	Write Word - 43					15292
	Write Word - 44					15293
	Write Word - 45					15294
	Write Word - 46					15295
	Write Word - 47					15296
	Write Word - 48					15297
	Write Word - 49					15298
	Write Word - 50					15299
P0624	Action for Communication Error	0 = Alarm 1 = Fault	0	rw, enum	0	624

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Product - Configuration - Communication - Ethernet						
P0798	ETH - Enable protocols	Bit 0 = Web Server	0	rw, 16bit	0	798
P0850	ETH - IP Address Settings	0 = Static IP 1 = DHCP	0	rw, enum	0	850
P0852	ETH - IP Address	0:0:0:0 to 255:255:255:255	192:168:1:10	rw, ip addr	0	852
P0855	ETH - Network Mask	0 = Not used 1 = 128.0.0.0 2 = 192.0.0.0 3 = 224.0.0.0 4 = 240.0.0.0 5 = 248.0.0.0 6 = 252.0.0.0 7 = 254.0.0.0 8 = 255.0.0.0 9 = 255.128.0.0 10 = 255.192.0.0 11 = 255.224.0.0 12 = 255.240.0.0 13 = 255.248.0.0 14 = 255.252.0.0 15 = 255.254.0.0 16 = 255.255.0.0 17 = 255.255.128.0 18 = 255.255.192.0 19 = 255.255.224.0 20 = 255.255.240.0 21 = 255.255.248.0 22 = 255.255.252.0 23 = 255.255.254.0 24 = 255.255.255.0 25 = 255.255.255.128 26 = 255.255.255.192 27 = 255.255.255.224 28 = 255.255.255.240 29 = 255.255.255.248 30 = 255.255.255.252 31 = 255.255.255.254	24	rw, enum	0	855
P0856	ETH - Gateway	0:0:0:0 to 255:255:255:255	0:0:0:0	rw, ip addr	0	856
P0890	ETH - Interface Control		9	rw, 16bit	0	890

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 0 = Auto Negotiate Link Bit 1 = Speed Link Bit 2 = Forced Duplex Link				
Product - Configuration - Communication - EtherNet/IP						
P0871	EIP - I/O instances	0 ... 9 = Not used 10 = 102/152 Config I/O data	10	rw, enum	0	871
Product - Configuration - Communication - Modbus TCP						
P0864	MBTCP - Connection Timeout	0 to 65535 s	65 s	rw, 16bit	0	864
P0865	MBTCP - TCP Port	0 to 65535	502	rw, 16bit	0	865
P0868	MBTCP - Timeout	0.0 to 999.0 s	0.0 s	rw, 16bit	1	868
Product - Configuration - Communication - MQTT						
P0844	MQTT - Enable/Disable	0 = Disable 1 = Enable 2 = Enable only publish	1	rw, enum	0	844
Product - Configuration - Communication - SNTP						
P0770	SNTP - Server 1	0:0:0:0 to 255:255:255:255	0:0:0:0	rw, ip addr	0	770
P0774	SNTP - Server 2	0:0:0:0 to 255:255:255:255	0:0:0:0	rw, ip addr	0	774
P0779	SNTP - Update Interval	0 to 65535	0	rw, 16bit	0	779
P0624	Action for Communication Error	0 = Alarm 1 = Fault	0	rw, enum	0	624
Product - Configuration - Inputs / Outputs						
P0902	Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04	0	rw, 32bit	0	902
P0904	Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	904
P0906	Digital Outputs Error Value	0 to 4294967295	0	rw, 32bit	0	906
P0908	Update I/Os in stop	Bit 0 = Select	0	rw, 16bit	0	908
P0909	Output behavior in stop	0 = Force outputs to the default value 1 = Keep the actual values	0	rw, enum	0	909
P0910	Quick output settings - 1 Quick output settings - 2 Quick output settings - 3 Quick output settings - 4	0 = Digital output (DO)	0	rw, enum	0	910 911 912 913

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		1 = PWM				
P0920	PWM frequency - 1	0 to 300000	0	rw, 32bit	0	920
	PWM frequency - 2					922
	PWM frequency - 3					924
	PWM frequency - 4					926
P0930	PWM pulse width - 1	0 to 1000	0	rw, 16bit	0	930
	PWM pulse width - 2					931
	PWM pulse width - 3					932
	PWM pulse width - 4					933
P0940	Counter 1 / DI1 - DI2	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	940
P0941	Counter 2 / DI3 - DI4	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	941
P0942	Counter 3 / DI5 - DI6	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	942
P0943	Counter 4 / DI7 - DI8	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	943
P0948	Counter - Reverse direction	Bit 0 = Counter 1 Bit 1 = Counter 2 Bit 2 = Counter 3 Bit 3 = Counter 4	0	rw, 16bit	0	948
P0979	Resets Counter	Bit 0 = Counter 1 Bit 1 = Counter 2 Bit 2 = Counter 3 Bit 3 = Counter 4	0	rw, 16bit	0	979
Product - Configuration - Flash						
P0204	Load parameters		0	rw, enum	0	204

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		0 = External Flash Memory 1 = Save Parameters to Flash 2 = It loads Parameters from Flash 3 = Restart product 4 = It loads Factory Settings 5 = It Resets the Expansions				
Product - Configuration - Clear Errors						
P0200	Clear Errors	0 to 255	0	rw, 8bit	0	200
Product - Configuration - Date and time						
P0194	Set Date/Time	0 to 4294967295	1704070861	rw, date and time epoch	0	194
P0196	Time Zone	0 = UTC-12:00 1 = UTC-11:30 2 = UTC-11:00 3 = UTC-10:30 4 = UTC-10:00 5 = UTC-09:30 6 = UTC-09:00 7 = UTC-08:30 8 = UTC-08:00 9 = UTC-07:30 10 = UTC-07:00 11 = UTC-06:30 12 = UTC-06:00 13 = UTC-05:30 14 = UTC-05:00 15 = UTC-04:30 16 = UTC-04:00 17 = UTC-03:30 18 = UTC-03:00 19 = UTC-02:30 20 = UTC-02:00 21 = UTC-01:30 22 = UTC-01:00 23 = UTC-00:30 24 = UTC+00:00 25 = UTC+00:30 26 = UTC+01:00 27 = UTC+01:30 28 = UTC+02:00	24	rw, enum	0	196

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		29 = UTC+02:30 30 = UTC+03:00 31 = UTC+03:30 32 = UTC+04:00 33 = UTC+04:30 34 = UTC+05:00 35 = UTC+05:30 36 = UTC+06:00 37 = UTC+06:30 38 = UTC+07:00 39 = UTC+07:30 40 = UTC+08:00 41 = UTC+08:30 42 = UTC+09:00 43 = UTC+09:30 44 = UTC+10:00 45 = UTC+10:30 46 = UTC+11:00 47 = UTC+11:30 48 = UTC+12:00 49 = UTC+12:30 50 = UTC+13:00 51 = UTC+13:30 52 = UTC+14:00				
P0190	Disable RTC	Bit 0 = Select	0	rw, 16bit	0	190
Product - User						
P0800	User Parameter - 1	-2147483648 to 2147483647	0	rw, s32bit	0	800
	User Parameter - 2					802
	User Parameter - 3					804
	User Parameter - 4					806
	User Parameter - 5					808
	User Parameter - 6					810
	User Parameter - 7					812
	User Parameter - 8					814
	User Parameter - 9					816
	User Parameter - 10					818
	User Parameter - 11					820
	User Parameter - 12					822
	User Parameter - 13					824
	User Parameter - 14					826

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	User Parameter - 15 User Parameter - 16 User Parameter - 17 User Parameter - 18 User Parameter - 19 User Parameter - 20					828 830 832 834 836 838
Slot 1 - Digital Input/Output						
Slot 1 - Digital Input/Output - Digital Outputs (DOs)						
P1102	Slot 1 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1102
Slot 1 - Digital Input/Output - Digital Inputs (DIs)						
P1100	Slot 1 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06	-	ro, 32bit	0	1100

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
Slot 1 - Digital Input/Output - Configuration						
P1104	Slot 1 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1104
P1106	Slot 1 - Error Value	0 to 4294967295	0	rw, 32bit	0	1106
Slot 1 - Analog Input (AI, TH, RTD)						
Slot 1 - Analog Input (AI, TH, RTD) - Configuration						
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3135	Slot 1 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3135
	Slot 1 - Active Analog Input Channel - 2					3136
	Slot 1 - Active Analog Input Channel - 3					3137
	Slot 1 - Active Analog Input Channel - 4					3138
	Slot 1 - Active Analog Input Channel - 5					3139
	Slot 1 - Active Analog Input Channel - 6					3140
	Slot 1 - Active Analog Input Channel - 7					3141
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Type						
P3142	Slot 1 - Analog Input Channel Type - 1		0	rw, enum	0	3142
	Slot 1 - Analog Input Channel Type - 2					3143
	Slot 1 - Analog Input Channel Type - 3					3144
	Slot 1 - Analog Input Channel Type - 4					3145

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 1 - Analog Input Channel Type - 5 Slot 1 - Analog Input Channel Type - 6 Slot 1 - Analog Input Channel Type - 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv				3146 3147 3148
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit						
P3149	Slot 1 - Analog Input Channel Unit 1 - 1 Slot 1 - Analog Input Channel Unit 1 - 2 Slot 1 - Analog Input Channel Unit 1 - 3 Slot 1 - Analog Input Channel Unit 1 - 4 Slot 1 - Analog Input Channel Unit 1 - 5 Slot 1 - Analog Input Channel Unit 1 - 6 Slot 1 - Analog Input Channel Unit 1 - 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3149 3150 3151 3152 3153 3154 3155
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit						
P3156	Slot 1 - Decimal Digit of the Analog Input Channel - 1 Slot 1 - Decimal Digit of the Analog Input Channel - 2 Slot 1 - Decimal Digit of the Analog Input Channel - 3 Slot 1 - Decimal Digit of the Analog Input Channel - 4 Slot 1 - Decimal Digit of the Analog Input Channel - 5 Slot 1 - Decimal Digit of the Analog Input Channel - 6 Slot 1 - Decimal Digit of the Analog Input Channel - 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3156 3157 3158 3159 3160 3161 3162
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel filter						
P3163	Slot 1 - Filter of the Analog Input Channel - 1 Slot 1 - Filter of the Analog Input Channel - 2 Slot 1 - Filter of the Analog Input Channel - 3 Slot 1 - Filter of the Analog Input Channel - 4 Slot 1 - Filter of the Analog Input Channel - 5 Slot 1 - Filter of the Analog Input Channel - 6 Slot 1 - Filter of the Analog Input Channel - 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values	4	rw, enum	0	3163 3164 3165 3166 3167 3168 3169

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		4 = Average of 16 Values 5 = Average of 32 Values				
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain						
P3170	Slot 1 - Gain of the Analog Input Channel - 1	-32768 to 32767	1000	rw, s16bit	0	3170
	Slot 1 - Gain of the Analog Input Channel - 2					3171
	Slot 1 - Gain of the Analog Input Channel - 3					3172
	Slot 1 - Gain of the Analog Input Channel - 4					3173
	Slot 1 - Gain of the Analog Input Channel - 5					3174
	Slot 1 - Gain of the Analog Input Channel - 6					3175
	Slot 1 - Gain of the Analog Input Channel - 7					3176
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset						
P3178	Slot 1 - Offset of the Analog Input Channel - 1	-32768 to 32767	0	rw, s16bit	0	3178
	Slot 1 - Offset of the Analog Input Channel - 2					3179
	Slot 1 - Offset of the Analog Input Channel - 3					3180
	Slot 1 - Offset of the Analog Input Channel - 4					3181
	Slot 1 - Offset of the Analog Input Channel - 5					3182
	Slot 1 - Offset of the Analog Input Channel - 6					3183
	Slot 1 - Offset of the Analog Input Channel - 7					3184
Slot 1 - Analog Input (AI, TH, RTD) - Status						
Slot 1 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3100	Slot 1 - 16-bit analog input - 1	-32768 to 32767	-	ro, s16bit	0	3100
	Slot 1 - 16-bit analog input - 2					3101
	Slot 1 - 16-bit analog input - 3					3102
	Slot 1 - 16-bit analog input - 4					3103
	Slot 1 - 16-bit analog input - 5					3104
	Slot 1 - 16-bit analog input - 6					3105
	Slot 1 - 16-bit analog input - 7					3106
Slot 1 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3107	Slot 1 - Analog Channel Status - 1		-	ro, enum	0	3107
	Slot 1 - Analog Channel Status - 2					3108
	Slot 1 - Analog Channel Status - 3					3109
	Slot 1 - Analog Channel Status - 4					3110
	Slot 1 - Analog Channel Status - 5					3111
	Slot 1 - Analog Channel Status - 6					3112
	Slot 1 - Analog Channel Status - 7					3113
		0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open				
Slot 1 - Analog Output						
Slot 1 - Analog Output - Configuration						

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 1 - Analog Output - Configuration - Error Mode						
P5108	Slot 1 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5108
	Slot 1 - Analog Output Error Mode - 2					5109
	Slot 1 - Analog Output Error Mode - 3					5110
	Slot 1 - Analog Output Error Mode - 4					5111
	Slot 1 - Analog Output Error Mode - 5					5112
	Slot 1 - Analog Output Error Mode - 6					5113
	Slot 1 - Analog Output Error Mode - 7					5114
	Slot 1 - Analog Output Error Mode - 8					5115
Slot 1 - Analog Output - Configuration - Error Value						
P5116	Slot 1 - Analog Output Error Value - 1	-32768 to 32767	0	rw, s16bit	0	5116
	Slot 1 - Analog Output Error Value - 2					5117
	Slot 1 - Analog Output Error Value - 3					5118
	Slot 1 - Analog Output Error Value - 4					5119
	Slot 1 - Analog Output Error Value - 5					5120
	Slot 1 - Analog Output Error Value - 6					5121
	Slot 1 - Analog Output Error Value - 7					5122
	Slot 1 - Analog Output Error Value - 8					5123
Slot 1 - Analog Output - Configuration - Channel Gain						
P5132	Slot 1 - Analog Output Channel Gain - 1	0 to 65535	1000	rw, 16bit	0	5132
	Slot 1 - Analog Output Channel Gain - 2					5133
	Slot 1 - Analog Output Channel Gain - 3					5134
	Slot 1 - Analog Output Channel Gain - 4					5135
	Slot 1 - Analog Output Channel Gain - 5					5136
	Slot 1 - Analog Output Channel Gain - 6					5137
	Slot 1 - Analog Output Channel Gain - 7					5138
	Slot 1 - Analog Output Channel Gain - 8					5139
Slot 1 - Analog Output - Configuration - Channel Offset						
P5140	Slot 1 - Analog Output Channel Offset - 1	-32768 to 32767	0	rw, s16bit	0	5140
	Slot 1 - Analog Output Channel Offset - 2					5141
	Slot 1 - Analog Output Channel Offset - 3					5142
	Slot 1 - Analog Output Channel Offset - 4					5143
	Slot 1 - Analog Output Channel Offset - 5					5144
	Slot 1 - Analog Output Channel Offset - 6					5145
	Slot 1 - Analog Output Channel Offset - 7					5146
	Slot 1 - Analog Output Channel Offset - 8					5147
Slot 1 - Analog Output - 16-Bit Analog Output Value						
P5100	Slot 1 - 16-Bit Analog Output - 1	-32768 to 32767	0	rw, s16bit	0	5100
	Slot 1 - 16-Bit Analog Output - 2					5101
	Slot 1 - 16-Bit Analog Output - 3					5102
	Slot 1 - 16-Bit Analog Output - 4					5103

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 1 - 16-Bit Analog Output - 5 Slot 1 - 16-Bit Analog Output - 6 Slot 1 - 16-Bit Analog Output - 7 Slot 1 - 16-Bit Analog Output - 8					5104 5105 5106 5107
Slot 1 - Analog input (SG)						
Slot 1 - Analog input (SG) - Configuration						
Slot 1 - Analog input (SG) - Configuration - Channel Enable						
P7118	Slot 1 - Enables Analog Channel - 1 Slot 1 - Enables Analog Channel - 2	0 = Inactive 1 = Active	1	rw, enum	0	7118 7119
Slot 1 - Analog input (SG) - Configuration - Channel Unit						
P7120	Slot 1 - Analog Channel Unit - 1 Slot 1 - Analog Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7120 7121
Slot 1 - Analog input (SG) - Configuration - Channel filter						
P7122	Slot 1 - Analog Channel Filter - 1 Slot 1 - Analog Channel Filter - 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7122 7123
Slot 1 - Analog input (SG) - Configuration - Channel Gain						
P7124	Slot 1 - Analog Channel Gain - 1 Slot 1 - Analog Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	0	7124 7125
Slot 1 - Analog input (SG) - Configuration - Channel Offset						
P7126	Slot 1 - Analog Channel Offset - 1 Slot 1 - Analog Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	0	7126 7128
Slot 1 - Analog input (SG) - Configuration - Channel Full Scale						
P7130	Slot 1 - Analog Channel Full Scale - 1 Slot 1 - Analog Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	0	7130 7131
Slot 1 - Analog input (SG) - Configuration - Channel Sensitivity						
P7132	Slot 1 - Analog Channel Sensitivity - 1 Slot 1 - Analog Channel Sensitivity - 2	0 to 255	2	rw, 8bit	0	7132 7133
Slot 1 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7134	Slot 1 - Analog Channel Sampling Rate - 1		4	rw, enum	0	7134

[illegible]

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 1 - Starter manager (SCW) - Status						
Slot 1 - Starter manager (SCW) - Status - Product Information						
P1100	Slot 1 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1100
P9102	Slot1 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9102
Slot 1 - Starter manager (SCW) - Status - Starters						
P9110	Slot1 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9110
P9111	Slot1 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9111
P9112	Slot1 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9112
P9113	Slot1 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9113
P9114	Slot1 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9114
P9115	Slot1 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9115
P9116	Slot1 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9116
P9117	Slot1 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9117
P9118	Slot1 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9118
P9119	Slot1 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9119
P9120	Slot1 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9120
P9121	Slot1 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9121

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9122	Slot1 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9122
P9123	Slot1 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9123
P9124	Slot1 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9124
P9125	Slot1 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9125
P9130	Slot1 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9130
P9132	Slot1 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9132
P9134	Slot1 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9134
P9136	Slot1 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9136
P9138	Slot1 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9138
P9140	Slot1 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9140
P9142	Slot1 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9142
P9144	Slot1 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9144
P9160	Slot1 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9160
P9161	Slot1 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9161
P9162	Slot1 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9162
P9163	Slot1 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9163
P9164	Slot1 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9164
P9165	Slot1 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9165
P9166	Slot1 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil	-	ro, enum	0	9166

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		3 = Starter OK. 4 = Energized coil				
P9167	Slot1 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9167
Slot 1 - Starter manager (SCW) - Status - Errors and Alarms						
P9170	Slot1 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9170
P9171	Slot1 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9171
P9172	Slot1 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9172
P9173	Slot1 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9173
P9175	Slot1 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9175
P9176	Slot1 - P2 - Last Alarm		-	ro, enum	0	9176

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature				
P9177	Slot1 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9177
P9178	Slot1 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9178
Slot 1 - Starter manager (SCW) - Configurations						
Slot 1 - Starter manager (SCW) - Configurations - Starters						
P9180	Slot1 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9180
P9181	Slot1 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9181
P9182	Slot1 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9182
P9183	Slot1 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9183
P9185	Slot1 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9185
P9186	Slot1 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9186
P9187	Slot1 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9187
P9188	Slot1 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9188
P9103	Slot1 - Factory Reset	0 to 65535	0	rw, 16bit	0	9103
Slot 1 - Starter manager (SCW) - Configurations - Counters						
P9150	Slot1 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9150
P9151	Slot1 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9151
P9152	Slot1 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9152
P9153	Slot1 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9153
P9154	Slot1 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9154
P9155	Slot1 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9155
P9156	Slot1 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9156

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9157	Slot1 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9157
P9158	Slot1 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9158
Slot 1 - Starter manager (SCW) - Configurations - Commands						
P9190	Slot1 - Direct Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9190
P9191	Slot1 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9191
P9192	Slot1 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9192
P1102	Slot 1 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23	0	rw, 32bit	0	1102

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 23 = DO24				
Slot 2 - Digital Input/Output						
Slot 2 - Digital Input/Output - Digital Outputs (DOs)						
P1202	Slot 2 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1202
Slot 2 - Digital Input/Output - Digital Inputs (DIs)						
P1200	Slot 2 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11	-	ro, 32bit	0	1200

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
Slot 2 - Digital Input/Output - Configuration						
P1204	Slot 2 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1204
P1206	Slot 2 - Error Value	0 to 4294967295	0	rw, 32bit	0	1206
Slot 2 - Analog Input (AI, TH, RTD)						
Slot 2 - Analog Input (AI, TH, RTD) - Configuration						
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3235	Slot 2 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3235
	Slot 2 - Active Analog Input Channel - 2					3236
	Slot 2 - Active Analog Input Channel - 3					3237
	Slot 2 - Active Analog Input Channel - 4					3238
	Slot 2 - Active Analog Input Channel - 5					3239
	Slot 2 - Active Analog Input Channel - 6					3240
	Slot 2 - Active Analog Input Channel - 7					3241
	Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Type					
P3242	Slot 2 - Analog Input Channel Type - 1	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000	0	rw, enum	0	3242
	Slot 2 - Analog Input Channel Type - 2					3243
	Slot 2 - Analog Input Channel Type - 3					3244
	Slot 2 - Analog Input Channel Type - 4					3245
	Slot 2 - Analog Input Channel Type - 5					3246
	Slot 2 - Analog Input Channel Type - 6					3247
	Slot 2 - Analog Input Channel Type - 7					3248

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 = ai: 4-20mA / th: T / rtd: Reserv				
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit						
P3249	Slot 2 - Analog Input Channel Unit 1 - 1	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3249
	Slot 2 - Analog Input Channel Unit 1 - 2					3250
	Slot 2 - Analog Input Channel Unit 1 - 3					3251
	Slot 2 - Analog Input Channel Unit 1 - 4					3252
	Slot 2 - Analog Input Channel Unit 1 - 5					3253
	Slot 2 - Analog Input Channel Unit 1 - 6					3254
	Slot 2 - Analog Input Channel Unit 1 - 7					3255
	Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit					
P3256	Slot 2 - Decimal Digit of the Analog Input Channel - 1	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3256
	Slot 2 - Decimal Digit of the Analog Input Channel - 2					3257
	Slot 2 - Decimal Digit of the Analog Input Channel - 3					3258
	Slot 2 - Decimal Digit of the Analog Input Channel - 4					3259
	Slot 2 - Decimal Digit of the Analog Input Channel - 5					3260
	Slot 2 - Decimal Digit of the Analog Input Channel - 6					3261
	Slot 2 - Decimal Digit of the Analog Input Channel - 7					3262
	Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel filter					
P3263	Slot 2 - Filter of the Analog Input Channel - 1	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3263
	Slot 2 - Filter of the Analog Input Channel - 2					3264
	Slot 2 - Filter of the Analog Input Channel - 3					3265
	Slot 2 - Filter of the Analog Input Channel - 4					3266
	Slot 2 - Filter of the Analog Input Channel - 5					3267
	Slot 2 - Filter of the Analog Input Channel - 6					3268
	Slot 2 - Filter of the Analog Input Channel - 7					3269
	Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain					
P3270	Slot 2 - Gain of the Analog Input Channel - 1	-32768 to 32767	1000	rw, s16bit	0	3270
	Slot 2 - Gain of the Analog Input Channel - 2					3271

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 2 - Gain of the Analog Input Channel - 3					3272
	Slot 2 - Gain of the Analog Input Channel - 4					3273
	Slot 2 - Gain of the Analog Input Channel - 5					3274
	Slot 2 - Gain of the Analog Input Channel - 6					3275
	Slot 2 - Gain of the Analog Input Channel - 7					3276
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset						
P3278	Slot 2 - Offset of the Analog Input Channel - 1	-32768 to 32767	0	rw, s16bit	0	3278
	Slot 2 - Offset of the Analog Input Channel - 2					3279
	Slot 2 - Offset of the Analog Input Channel - 3					3280
	Slot 2 - Offset of the Analog Input Channel - 4					3281
	Slot 2 - Offset of the Analog Input Channel - 5					3282
	Slot 2 - Offset of the Analog Input Channel - 6					3283
	Slot 2 - Offset of the Analog Input Channel - 7					3284
Slot 2 - Analog Input (AI, TH, RTD) - Status						
Slot 2 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3200	Slot 2 - 16-bit analog input - 1	-32768 to 32767	-	ro, s16bit	0	3200
	Slot 2 - 16-bit analog input - 2					3201
	Slot 2 - 16-bit analog input - 3					3202
	Slot 2 - 16-bit analog input - 4					3203
	Slot 2 - 16-bit analog input - 5					3204
	Slot 2 - 16-bit analog input - 6					3205
	Slot 2 - 16-bit analog input - 7					3206
Slot 2 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3207	Slot 2 - Analog Channel Status - 1		-	ro, enum	0	3207
	Slot 2 - Analog Channel Status - 2					3208
	Slot 2 - Analog Channel Status - 3					3209
	Slot 2 - Analog Channel Status - 4					3210
	Slot 2 - Analog Channel Status - 5					3211
	Slot 2 - Analog Channel Status - 6					3212
	Slot 2 - Analog Channel Status - 7					3213
0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open						
Slot 2 - Analog Output						
Slot 2 - Analog Output - Configuration						
Slot 2 - Analog Output - Configuration - Error Mode						
P5208	Slot 2 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5208
	Slot 2 - Analog Output Error Mode - 2					5209
	Slot 2 - Analog Output Error Mode - 3					5210
	Slot 2 - Analog Output Error Mode - 4					5211

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 2 - Analog Output Error Mode - 5 Slot 2 - Analog Output Error Mode - 6 Slot 2 - Analog Output Error Mode - 7 Slot 2 - Analog Output Error Mode - 8					5212 5213 5214 5215
Slot 2 - Analog Output - Configuration - Error Value						
P5216	Slot 2 - Analog Output Error Value - 1 Slot 2 - Analog Output Error Value - 2 Slot 2 - Analog Output Error Value - 3 Slot 2 - Analog Output Error Value - 4 Slot 2 - Analog Output Error Value - 5 Slot 2 - Analog Output Error Value - 6 Slot 2 - Analog Output Error Value - 7 Slot 2 - Analog Output Error Value - 8	-32768 to 32767	0	rw, s16bit	0	5216 5217 5218 5219 5220 5221 5222 5223
Slot 2 - Analog Output - Configuration - Channel Gain						
P5232	Slot 2 - Analog Output Channel Gain - 1 Slot 2 - Analog Output Channel Gain - 2 Slot 2 - Analog Output Channel Gain - 3 Slot 2 - Analog Output Channel Gain - 4 Slot 2 - Analog Output Channel Gain - 5 Slot 2 - Analog Output Channel Gain - 6 Slot 2 - Analog Output Channel Gain - 7 Slot 2 - Analog Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	0	5232 5233 5234 5235 5236 5237 5238 5239
Slot 2 - Analog Output - Configuration - Channel Offset						
P5240	Slot 2 - Analog Output Channel Offset - 1 Slot 2 - Analog Output Channel Offset - 2 Slot 2 - Analog Output Channel Offset - 3 Slot 2 - Analog Output Channel Offset - 4 Slot 2 - Analog Output Channel Offset - 5 Slot 2 - Analog Output Channel Offset - 6 Slot 2 - Analog Output Channel Offset - 7 Slot 2 - Analog Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	0	5240 5241 5242 5243 5244 5245 5246 5247
Slot 2 - Analog Output - 16-Bit Analog Output Value						
P5200	Slot 2 - 16-Bit Analog Output - 1 Slot 2 - 16-Bit Analog Output - 2 Slot 2 - 16-Bit Analog Output - 3 Slot 2 - 16-Bit Analog Output - 4 Slot 2 - 16-Bit Analog Output - 5 Slot 2 - 16-Bit Analog Output - 6 Slot 2 - 16-Bit Analog Output - 7 Slot 2 - 16-Bit Analog Output - 8	-32768 to 32767	0	rw, s16bit	0	5200 5201 5202 5203 5204 5205 5206 5207

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 2 - Analog input (SG)						
Slot 2 - Analog input (SG) - Configuration						
Slot 2 - Analog input (SG) - Configuration - Channel Enable						
P7218	Slot 2 - Enables Analog Channel - 1 Slot 2 - Enables Analog Channel - 2	0 = Inactive 1 = Active	1	rw, enum	0	7218 7219
Slot 2 - Analog input (SG) - Configuration - Channel Unit						
P7220	Slot 2 - Analog Channel Unit - 1 Slot 2 - Analog Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7220 7221
Slot 2 - Analog input (SG) - Configuration - Channel filter						
P7222	Slot 2 - Analog Channel Filter - 1 Slot 2 - Analog Channel Filter - 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7222 7223
Slot 2 - Analog input (SG) - Configuration - Channel Gain						
P7224	Slot 2 - Analog Channel Gain - 1 Slot 2 - Analog Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	0	7224 7225
Slot 2 - Analog input (SG) - Configuration - Channel Offset						
P7226	Slot 2 - Analog Channel Offset - 1 Slot 2 - Analog Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	0	7226 7228
Slot 2 - Analog input (SG) - Configuration - Channel Full Scale						
P7230	Slot 2 - Analog Channel Full Scale - 1 Slot 2 - Analog Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	0	7230 7231
Slot 2 - Analog input (SG) - Configuration - Channel Sensitivity						
P7232	Slot 2 - Analog Channel Sensitivity - 1 Slot 2 - Analog Channel Sensitivity - 2	0 to 255	2	rw, 8bit	0	7232 7233
Slot 2 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7234	Slot 2 - Analog Channel Sampling Rate - 1 Slot 2 - Analog Channel Sampling Rate - 2	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms)	4	rw, enum	0	7234 7235

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms)				
Slot 2 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7236	Slot 2 - Maximum Analog Channel Variation - 1 Slot 2 - Maximum Analog Channel Variation - 2	0 to 4294967295	100000	rw, 32bit	0	7236 7238
Slot 2 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7240	Slot 2 - Analog Channel Discard Value - 1 Slot 2 - Analog Channel Discard Value - 2	0 = Maintain 1 = Discard	0	rw, enum	0	7240 7241
Slot 2 - Analog input (SG) - Configuration - Filter Time Constant						
P7242	Slot 2 - Analog Channel Filter - 1 Slot 2 - Analog Channel Filter - 2	0 to 65535	0	rw, 16bit	0	7242 7243
Slot 2 - Analog input (SG) - Configuration - Channel Variation Step						
P7244	Slot 2 - Analog Channel Variation Step - 1 Slot 2 - Analog Channel Variation Step - 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7244 7245
Slot 2 - Analog input (SG) - Status						
Slot 2 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7200	Slot 2 - Weight (g, kg, t) 16 Bit - 1 Slot 2 - Weight (g, kg, t) 16 Bit - 2	-32768 to 32767	-	ro, s16bit	0	7200 7201
Slot 2 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7202	Slot 2 - Weight (g, kg, t) 32 Bit - 1 Slot 2 - Weight (g, kg, t) 32 Bit - 2	-2147483648 to 2147483647	-	ro, s32bit	0	7202 7204
Slot 2 - Analog input (SG) - Status - SG Analog Channel Status						
P7206	Slot 2 - Analog Channel Status - 1 Slot 2 - Analog Channel Status - 2	0 = Inactive 1 = Active	-	ro, enum	0	7206 7207
Slot 2 - Starter manager (SCW)						
Slot 2 - Starter manager (SCW) - Status						
Slot 2 - Starter manager (SCW) - Status - Product Information						
P1200	Slot 2 - Digital Inputs (DIs)	Bit 0 = DI01	-	ro, 32bit	0	1200

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9202	Slot2 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9202
Slot 2 - Starter manager (SCW) - Status - Starters						
P9210	Slot2 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9210
P9211	Slot2 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9211
P9212	Slot2 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9212
P9213	Slot2 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9213
P9214	Slot2 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9214
P9215	Slot2 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9215
P9216	Slot2 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9216
P9217	Slot2 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9217
P9218	Slot2 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9218
P9219	Slot2 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9219
P9220	Slot2 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9220
P9221	Slot2 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9221
P9222	Slot2 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9222
P9223	Slot2 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9223
P9224	Slot2 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9224
P9225	Slot2 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9225

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9230	Slot2 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9230
P9232	Slot2 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9232
P9234	Slot2 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9234
P9236	Slot2 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9236
P9238	Slot2 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9238
P9240	Slot2 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9240
P9242	Slot2 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9242
P9244	Slot2 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9244
P9260	Slot2 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9260
P9261	Slot2 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9261
P9262	Slot2 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9262
P9263	Slot2 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9263
P9264	Slot2 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9264
P9265	Slot2 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9265
P9266	Slot2 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9266
P9267	Slot2 - P4 Status - Direction and Errors	Bit 0 = Direction	-	ro, 16bit	0	9267

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 1 = Active error Bit 2 = Active Alarm				
Slot 2 - Starter manager (SCW) - Status - Errors and Alarms						
P9270	Slot2 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9270
P9271	Slot2 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9271
P9272	Slot2 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9272
P9273	Slot2 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9273
P9275	Slot2 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9275
P9276	Slot2 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9276

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9277	Slot2 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9277
P9278	Slot2 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9278
Slot 2 - Starter manager (SCW) - Configurations						
Slot 2 - Starter manager (SCW) - Configurations - Starters						
P9280	Slot2 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9280
P9281	Slot2 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9281
P9282	Slot2 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9282
P9283	Slot2 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9283
P9285	Slot2 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9285
P9286	Slot2 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9286
P9287	Slot2 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9287
P9288	Slot2 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9288
P9203	Slot2 - Factory Reset	0 to 65535	0	rw, 16bit	0	9203
Slot 2 - Starter manager (SCW) - Configurations - Counters						
P9250	Slot2 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9250
P9251	Slot2 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9251
P9252	Slot2 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9252
P9253	Slot2 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9253
P9254	Slot2 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9254
P9255	Slot2 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9255
P9256	Slot2 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9256
P9257	Slot2 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9257
P9258	Slot2 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9258
Slot 2 - Starter manager (SCW) - Configurations - Commands						
P9290	Slot2 - Forward Starter Command		0	rw, 16bit	0	9290

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward				
P9291	Slot2 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9291
P9292	Slot2 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9292
P1202	Slot 2 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1202
Slot 3 - Digital Input/Output						
Slot 3 - Digital Input/Output - Digital Outputs (DOs)						

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P1302	Slot 3 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1302
Slot 3 - Digital Input/Output - Digital Inputs (DIs)						
P1300	Slot 3 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14	-	ro, 32bit	0	1300

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
Slot 3 - Digital Input/Output - Configuration						
P1304	Slot 3 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1304
P1306	Slot 3 - Error Value	0 to 4294967295	0	rw, 32bit	0	1306
Slot 3 - Analog Input (AI, TH, RTD)						
Slot 3 - Analog Input (AI, TH, RTD) - Configuration						
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3335	Slot 3 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3335
	Slot 3 - Active Analog Input Channel - 2					3336
	Slot 3 - Active Analog Input Channel - 3					3337
	Slot 3 - Active Analog Input Channel - 4					3338
	Slot 3 - Active Analog Input Channel - 5					3339
	Slot 3 - Active Analog Input Channel - 6					3340
	Slot 3 - Active Analog Input Channel - 7					3341
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Type						
P3342	Slot 3 - Analog Input Channel Type - 1	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3342
	Slot 3 - Analog Input Channel Type - 2					3343
	Slot 3 - Analog Input Channel Type - 3					3344
	Slot 3 - Analog Input Channel Type - 4					3345
	Slot 3 - Analog Input Channel Type - 5					3346
	Slot 3 - Analog Input Channel Type - 6					3347
	Slot 3 - Analog Input Channel Type - 7					3348
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit						
P3349	Slot 3 - Analog Input Channel Unit 1 - 1		0	rw, enum	0	3349

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 3 - Analog Input Channel Unit 1 - 2 Slot 3 - Analog Input Channel Unit 1 - 3 Slot 3 - Analog Input Channel Unit 1 - 4 Slot 3 - Analog Input Channel Unit 1 - 5 Slot 3 - Analog Input Channel Unit 1 - 6 Slot 3 - Analog Input Channel Unit 1 - 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K				3350 3351 3352 3353 3354 3355
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit						
P3356	Slot 3 - Decimal Digit of the Analog Input Channel - 1 Slot 3 - Decimal Digit of the Analog Input Channel - 2 Slot 3 - Decimal Digit of the Analog Input Channel - 3 Slot 3 - Decimal Digit of the Analog Input Channel - 4 Slot 3 - Decimal Digit of the Analog Input Channel - 5 Slot 3 - Decimal Digit of the Analog Input Channel - 6 Slot 3 - Decimal Digit of the Analog Input Channel - 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3356 3357 3358 3359 3360 3361 3362
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel filter						
P3363	Slot 3 - Filter of the Analog Input Channel - 1 Slot 3 - Filter of the Analog Input Channel - 2 Slot 3 - Filter of the Analog Input Channel - 3 Slot 3 - Filter of the Analog Input Channel - 4 Slot 3 - Filter of the Analog Input Channel - 5 Slot 3 - Filter of the Analog Input Channel - 6 Slot 3 - Filter of the Analog Input Channel - 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3363 3364 3365 3366 3367 3368 3369
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain						
P3370	Slot 3 - Gain of the Analog Input Channel - 1 Slot 3 - Gain of the Analog Input Channel - 2 Slot 3 - Gain of the Analog Input Channel - 3 Slot 3 - Gain of the Analog Input Channel - 4 Slot 3 - Gain of the Analog Input Channel - 5	-32768 to 32767	1000	rw, s16bit	0	3370 3371 3372 3373 3374

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 3 - Gain of the Analog Input Channel - 6					3375
	Slot 3 - Gain of the Analog Input Channel - 7					3376
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset						
P3378	Slot 3 - Offset of the Analog Input Channel - 1	-32768 to 32767	0	rw, s16bit	0	3378
	Slot 3 - Offset of the Analog Input Channel - 2					3379
	Slot 3 - Offset of the Analog Input Channel - 3					3380
	Slot 3 - Offset of the Analog Input Channel - 4					3381
	Slot 3 - Offset of the Analog Input Channel - 5					3382
	Slot 3 - Offset of the Analog Input Channel - 6					3383
	Slot 3 - Offset of the Analog Input Channel - 7					3384
Slot 3 - Analog Input (AI, TH, RTD) - Status						
Slot 3 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3300	Slot 3 - 16-bit analog input - 1	-32768 to 32767	-	ro, s16bit	0	3300
	Slot 3 - 16-bit analog input - 2					3301
	Slot 3 - 16-bit analog input - 3					3302
	Slot 3 - 16-bit analog input - 4					3303
	Slot 3 - 16-bit analog input - 5					3304
	Slot 3 - 16-bit analog input - 6					3305
	Slot 3 - 16-bit analog input - 7					3306
Slot 3 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3307	Slot 3 - Analog Channel Status - 1		-	ro, enum	0	3307
	Slot 3 - Analog Channel Status - 2					3308
	Slot 3 - Analog Channel Status - 3					3309
	Slot 3 - Analog Channel Status - 4					3310
	Slot 3 - Analog Channel Status - 5					3311
	Slot 3 - Analog Channel Status - 6					3312
	Slot 3 - Analog Channel Status - 7					3313
		0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open				
Slot 3 - Analog Output						
Slot 3 - Analog Output - Configuration						
Slot 3 - Analog Output - Configuration - Error Mode						
P5308	Slot 3 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5308
	Slot 3 - Analog Output Error Mode - 2					5309
	Slot 3 - Analog Output Error Mode - 3					5310
	Slot 3 - Analog Output Error Mode - 4					5311
	Slot 3 - Analog Output Error Mode - 5					5312
	Slot 3 - Analog Output Error Mode - 6					5313
	Slot 3 - Analog Output Error Mode - 7					5314

[illegible]

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P7318	Slot 3 - Enables Analog Channel - 1	0 = Inactive 1 = Active	1	rw, enum	0	7318
	Slot 3 - Enables Analog Channel - 2					7319
Slot 3 - Analog input (SG) - Configuration - Channel Unit						
P7320	Slot 3 - Analog Channel Unit - 1	0 = g 1 = kg 2 = t	0	rw, enum	0	7320
	Slot 3 - Analog Channel Unit - 2					7321
Slot 3 - Analog input (SG) - Configuration - Channel filter						
P7322	Slot 3 - Analog Channel Filter - 1	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7322
	Slot 3 - Analog Channel Filter - 2					7323
Slot 3 - Analog input (SG) - Configuration - Channel Gain						
P7324	Slot 3 - Analog Channel Gain - 1	-32768 to 32767	1000	rw, s16bit	0	7324
	Slot 3 - Analog Channel Gain - 2					7325
Slot 3 - Analog input (SG) - Configuration - Channel Offset						
P7326	Slot 3 - Analog Channel Offset - 1	-2147483648 to 2147483647	0	rw, s32bit	0	7326
	Slot 3 - Analog Channel Offset - 2					7328
Slot 3 - Analog input (SG) - Configuration - Channel Full Scale						
P7330	Slot 3 - Analog Channel Full Scale - 1	0 to 65535	10000	rw, 16bit	0	7330
	Slot 3 - Analog Channel Full Scale - 2					7331
Slot 3 - Analog input (SG) - Configuration - Channel Sensitivity						
P7332	Slot 3 - Analog Channel Sensitivity - 1	0 to 255	2	rw, 8bit	0	7332
	Slot 3 - Analog Channel Sensitivity - 2					7333
Slot 3 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7334	Slot 3 - Analog Channel Sampling Rate - 1	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms) 3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms)	4	rw, enum	0	7334
	Slot 3 - Analog Channel Sampling Rate - 2					7335

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		6 = 107.32 SPS (9.32 ms)				
Slot 3 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7336	Slot 3 - Maximum Analog Channel Variation - 1 Slot 3 - Maximum Analog Channel Variation - 2	0 to 4294967295	100000	rw, 32bit	0	7336 7338
Slot 3 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7340	Slot 3 - Analog Channel Discard Value - 1 Slot 3 - Analog Channel Discard Value - 2	0 = Maintain 1 = Discard	0	rw, enum	0	7340 7341
Slot 3 - Analog input (SG) - Configuration - Filter Time Constant						
P7342	Slot 3 - Analog Channel Filter - 1 Slot 3 - Analog Channel Filter - 2	0 to 65535	0	rw, 16bit	0	7342 7343
Slot 3 - Analog input (SG) - Configuration - Channel Variation Step						
P7344	Slot 3 - Analog Channel Variation Step - 1 Slot 3 - Analog Channel Variation Step - 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7344 7345
Slot 3 - Analog input (SG) - Status						
Slot 3 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7300	Slot 3 - Weight (g, kg, t) 16 Bit - 1 Slot 3 - Weight (g, kg, t) 16 Bit - 2	-32768 to 32767	-	ro, s16bit	0	7300 7301
Slot 3 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7302	Slot 3 - Weight (g, kg, t) 32 Bit - 1 Slot 3 - Weight (g, kg, t) 32 Bit - 2	-2147483648 to 2147483647	-	ro, s32bit	0	7302 7304
Slot 3 - Analog input (SG) - Status - SG Analog Channel Status						
P7306	Slot 3 - Analog Channel Status - 1 Slot 3 - Analog Channel Status - 2	0 = Inactive 1 = Active	-	ro, enum	0	7306 7307
Slot 3 - Starter manager (SCW)						
Slot 3 - Starter manager (SCW) - Status						
Slot 3 - Starter manager (SCW) - Status - Product Information						
P1300	Slot 3 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04	-	ro, 32bit	0	1300

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9302	Slot3 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9302
Slot 3 - Starter manager (SCW) - Status - Starters						
P9310	Slot3 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9310
P9311	Slot3 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9311
P9312	Slot3 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9312
P9313	Slot3 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9313
P9314	Slot3 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9314
P9315	Slot3 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9315
P9316	Slot3 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9316
P9317	Slot3 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9317
P9318	Slot3 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9318
P9319	Slot3 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9319
P9320	Slot3 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9320
P9321	Slot3 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9321
P9322	Slot3 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9322
P9323	Slot3 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9323
P9324	Slot3 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9324
P9325	Slot3 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9325
P9330	Slot3 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9330
P9332	Slot3 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9332
P9334	Slot3 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9334

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9336	Slot3 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9336
P9338	Slot3 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9338
P9340	Slot3 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9340
P9342	Slot3 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9342
P9344	Slot3 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9344
P9360	Slot3 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9360
P9361	Slot3 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9361
P9362	Slot3 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9362
P9363	Slot3 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9363
P9364	Slot3 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9364
P9365	Slot3 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9365
P9366	Slot3 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9366
P9367	Slot3 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9367

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 3 - Starter manager (SCW) - Status - Errors and Alarms						
P9370	Slot3 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9370
P9371	Slot3 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9371
P9372	Slot3 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9372
P9373	Slot3 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9373
P9375	Slot3 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9375
P9376	Slot3 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9376
P9377	Slot3 - P3 - Last Alarm	0 = No Alarm 1 = Starter On	-	ro, enum	0	9377

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 = Air Circuit Breaker 3 = CPU overtemperature				
P9378	Slot3 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9378
Slot 3 - Starter manager (SCW) - Configurations						
Slot 3 - Starter manager (SCW) - Configurations - Starters						
P9380	Slot3 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9380
P9381	Slot3 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9381
P9382	Slot3 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9382
P9383	Slot3 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9383
P9385	Slot3 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9385
P9386	Slot3 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9386
P9387	Slot3 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9387
P9388	Slot3 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9388
P9303	Slot3 - Factory Reset	0 to 65535	0	rw, 16bit	0	9303
Slot 3 - Starter manager (SCW) - Configurations - Counters						
P9350	Slot3 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9350
P9351	Slot3 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9351
P9352	Slot3 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9352
P9353	Slot3 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9353
P9354	Slot3 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9354
P9355	Slot3 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9355
P9356	Slot3 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9356
P9357	Slot3 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9357
P9358	Slot3 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9358
Slot 3 - Starter manager (SCW) - Configurations - Commands						
P9390	Slot3 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward	0	rw, 16bit	0	9390

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 3 = Starter 4 - forward				
P9391	Slot3 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9391
P9392	Slot3 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9392
P1302	Slot 3 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1302
Slot 4 - Digital Input/Output						
Slot 4 - Digital Input/Output - Digital Outputs (DOs)						
P1402	Slot 4 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02	0	rw, 32bit	0	1402

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24				
Slot 4 - Digital Input/Output - Digital Inputs (DIs)						
P1400	Slot 4 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17	-	ro, 32bit	0	1400

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
Slot 4 - Digital Input/Output - Configuration						
P1404	Slot 4 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1404
P1406	Slot 4 - Error Value	0 to 4294967295	0	rw, 32bit	0	1406
Slot 4 - Analog Input (AI, TH, RTD)						
Slot 4 - Analog Input (AI, TH, RTD) - Configuration						
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3435	Slot 4 - Active Analog Input Channel - 1 Slot 4 - Active Analog Input Channel - 2 Slot 4 - Active Analog Input Channel - 3 Slot 4 - Active Analog Input Channel - 4 Slot 4 - Active Analog Input Channel - 5 Slot 4 - Active Analog Input Channel - 6 Slot 4 - Active Analog Input Channel - 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3435 3436 3437 3438 3439 3440 3441
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Type						
P3442	Slot 4 - Analog Input Channel Type - 1 Slot 4 - Analog Input Channel Type - 2 Slot 4 - Analog Input Channel Type - 3 Slot 4 - Analog Input Channel Type - 4 Slot 4 - Analog Input Channel Type - 5 Slot 4 - Analog Input Channel Type - 6 Slot 4 - Analog Input Channel Type - 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3442 3443 3444 3445 3446 3447 3448
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit						
P3449	Slot 4 - Analog Input Channel Unit 1 - 1 Slot 4 - Analog Input Channel Unit 1 - 2 Slot 4 - Analog Input Channel Unit 1 - 3 Slot 4 - Analog Input Channel Unit 1 - 4		0	rw, enum	0	3449 3450 3451 3452

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Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P3478	Slot 4 - Offset of the Analog Input Channel - 1	-32768 to 32767	0	rw, s16bit	0	3478
	Slot 4 - Offset of the Analog Input Channel - 2					3479
	Slot 4 - Offset of the Analog Input Channel - 3					3480
	Slot 4 - Offset of the Analog Input Channel - 4					3481
	Slot 4 - Offset of the Analog Input Channel - 5					3482
	Slot 4 - Offset of the Analog Input Channel - 6					3483
	Slot 4 - Offset of the Analog Input Channel - 7					3484
Slot 4 - Analog Input (AI, TH, RTD) - Status						
Slot 4 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3400	Slot 4 - 16-bit processed analog input - 1	-32768 to 32767	-	ro, s16bit	0	3400
	Slot 4 - 16-bit processed analog input - 2					3401
	Slot 4 - 16-bit processed analog input - 3					3402
	Slot 4 - 16-bit processed analog input - 4					3403
	Slot 4 - 16-bit processed analog input - 5					3404
	Slot 4 - 16-bit processed analog input - 6					3405
	Slot 4 - 16-bit processed analog input - 7					3406
Slot 4 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3407	Slot 4 - Analog Channel Status - 1		-	ro, enum	0	3407
	Slot 4 - Analog Channel Status - 2					3408
	Slot 4 - Analog Channel Status - 3					3409
	Slot 4 - Analog Channel Status - 4					3410
	Slot 4 - Analog Channel Status - 5					3411
	Slot 4 - Analog Channel Status - 6					3412
	Slot 4 - Analog Channel Status - 7					3413
		0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open				
Slot 4 - Analog Output						
Slot 4 - Analog Output - Configuration						
Slot 4 - Analog Output - Configuration - Error Mode						
P5408	Slot 4 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5408
	Slot 4 - Analog Output Error Mode - 2					5409
	Slot 4 - Analog Output Error Mode - 3					5410
	Slot 4 - Analog Output Error Mode - 4					5411
	Slot 4 - Analog Output Error Mode - 5					5412
	Slot 4 - Analog Output Error Mode - 6					5413
	Slot 4 - Analog Output Error Mode - 7					5414
	Slot 4 - Analog Output Error Mode - 8					5415
Slot 4 - Analog Output - Configuration - Error Value						
P5416	Slot 4 - Analog Output Error Value - 1	-32768 to 32767	0	rw, s16bit	0	5416

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 4 - Analog Output Error Value - 2					5417
	Slot 4 - Analog Output Error Value - 3					5418
	Slot 4 - Analog Output Error Value - 4					5419
	Slot 4 - Analog Output Error Value - 5					5420
	Slot 4 - Analog Output Error Value - 6					5421
	Slot 4 - Analog Output Error Value - 7					5422
	Slot 4 - Analog Output Error Value - 8					5423
Slot 4 - Analog Output - Configuration - Channel Gain						
P5432	Slot 4 - Analog Output Channel Gain - 1	0 to 65535	1000	rw, 16bit	0	5432
	Slot 4 - Analog Output Channel Gain - 2					5433
	Slot 4 - Analog Output Channel Gain - 3					5434
	Slot 4 - Analog Output Channel Gain - 4					5435
	Slot 4 - Analog Output Channel Gain - 5					5436
	Slot 4 - Analog Output Channel Gain - 6					5437
	Slot 4 - Analog Output Channel Gain - 7					5438
	Slot 4 - Analog Output Channel Gain - 8					5439
Slot 4 - Analog Output - Configuration - Channel Offset						
P5440	Slot 4 - Analog Output Channel Offset - 1	-32768 to 32767	0	rw, s16bit	0	5440
	Slot 4 - Analog Output Channel Offset - 2					5441
	Slot 4 - Analog Output Channel Offset - 3					5442
	Slot 4 - Analog Output Channel Offset - 4					5443
	Slot 4 - Analog Output Channel Offset - 5					5444
	Slot 4 - Analog Output Channel Offset - 6					5445
	Slot 4 - Analog Output Channel Offset - 7					5446
	Slot 4 - Analog Output Channel Offset - 8					5447
Slot 4 - Analog Output - 16-Bit Analog Output Value						
P5400	Slot 4 - 16-Bit Analog Output - 1	-32768 to 32767	0	rw, s16bit	0	5400
	Slot 4 - 16-Bit Analog Output - 2					5401
	Slot 4 - 16-Bit Analog Output - 3					5402
	Slot 4 - 16-Bit Analog Output - 4					5403
	Slot 4 - 16-Bit Analog Output - 5					5404
	Slot 4 - 16-Bit Analog Output - 6					5405
	Slot 4 - 16-Bit Analog Output - 7					5406
	Slot 4 - 16-Bit Analog Output - 8					5407
Slot 4 - Analog input (SG)						
Slot 4 - Analog input (SG) - Configuration						
Slot 4 - Analog input (SG) - Configuration - Channel Enable						
P7418	Slot 4 - Enables Analog Channel - 1		1	rw, enum	0	7418
	Slot 4 - Enables Analog Channel - 2	0 = Inactive 1 = Active				7419

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 4 - Analog input (SG) - Configuration - Channel Unit						
P7420	Slot 4 - Analog Channel Unit - 1 Slot 4 - Analog Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7420 7421
Slot 4 - Analog input (SG) - Configuration - Channel filter						
P7422	Slot 4 - Analog Channel Filter - 1 Slot 4 - Analog Channel Filter - 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7422 7423
Slot 4 - Analog input (SG) - Configuration - Channel Gain						
P7424	Slot 4 - Analog Channel Gain - 1 Slot 4 - Analog Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	0	7424 7425
Slot 4 - Analog input (SG) - Configuration - Channel Offset						
P7426	Slot 4 - Analog Channel Offset - 1 Slot 4 - Analog Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	0	7426 7428
Slot 4 - Analog input (SG) - Configuration - Channel Full Scale						
P7430	Slot 4 - Analog Channel Full Scale - 1 Slot 4 - Analog Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	0	7430 7431
Slot 4 - Analog input (SG) - Configuration - Channel Sensitivity						
P7432	Slot 4 - Analog Channel Sensitivity - 1 Slot 4 - Analog Channel Sensitivity - 2	0 to 255	2	rw, 8bit	0	7432 7433
Slot 4 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7434	Slot 4 - Analog Channel Sampling Rate - 1 Slot 4 - Analog Channel Sampling Rate - 2	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms) 3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms)	4	rw, enum	0	7434 7435
Slot 4 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7436	Slot 4 - Maximum Analog Channel Variation - 1 Slot 4 - Maximum Analog Channel Variation - 2	0 to 4294967295	100000	rw, 32bit	0	7436 7438

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 4 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7440	Slot 4 - Analog Channel Discard Value - 1 Slot 4 - Analog Channel Discard Value - 2	0 = Maintain 1 = Discard	0	rw, enum	0	7440 7441
Slot 4 - Analog input (SG) - Configuration - Filter Time Constant						
P7442	Slot 4 - Analog Channel Filter - 1 Slot 4 - Analog Channel Filter - 2	0 to 65535	0	rw, 16bit	0	7442 7443
Slot 4 - Analog input (SG) - Configuration - Channel Variation Step						
P7444	Slot 4 - Analog Channel Variation Step - 1 Slot 4 - Analog Channel Variation Step - 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7444 7445
Slot 4 - Analog input (SG) - Status						
Slot 4 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7400	Slot 4 - Weight (g, kg, t) 16 Bit - 1 Slot 4 - Weight (g, kg, t) 16 Bit - 2	-32768 to 32767	-	ro, s16bit	0	7400 7401
Slot 4 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7402	Slot 4 - Weight (g, kg, t) 32 Bit - 1 Slot 4 - Weight (g, kg, t) 32 Bit - 2	-2147483648 to 2147483647	-	ro, s32bit	0	7402 7404
Slot 4 - Analog input (SG) - Status - Analog SG Channel Status						
P7406	Slot 4 - Analog Channel Status - 1 Slot 4 - Analog Channel Status - 2	0 = Inactive 1 = Active	-	ro, enum	0	7406 7407
Slot 4 - Starter manager (SCW)						
Slot 4 - Starter manager (SCW) - Status						
Slot 4 - Starter manager (SCW) - Status - Product Information						
P1400	Slot 4 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08	-	ro, 32bit	0	1400

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9402	Slot4 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9402
Slot 4 - Starter manager (SCW) - Status - Starters						
P9410	Slot4 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9410
P9411	Slot4 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9411
P9412	Slot4 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9412
P9413	Slot4 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9413
P9414	Slot4 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9414
P9415	Slot4 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9415
P9416	Slot4 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9416
P9417	Slot4 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9417
P9418	Slot4 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9418
P9419	Slot4 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9419
P9420	Slot4 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9420
P9421	Slot4 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9421
P9422	Slot4 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9422
P9423	Slot4 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9423
P9424	Slot4 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9424
P9425	Slot4 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9425
P9430	Slot4 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9430
P9432	Slot4 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9432
P9434	Slot4 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9434
P9436	Slot4 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9436
P9438	Slot4 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9438
P9440	Slot4 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9440
P9442	Slot4 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9442

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9444	Slot4 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9444
P9460	Slot4 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9460
P9461	Slot4 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9461
P9462	Slot4 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9462
P9463	Slot4 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9463
P9464	Slot4 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9464
P9465	Slot4 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9465
P9466	Slot4 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9466
P9467	Slot4 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9467
Slot 4 - Starter manager (SCW) - Status - Errors and Alarms						
P9470	Slot4 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil	-	ro, enum	0	9470

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor				
P9471	Slot4 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9471
P9472	Slot4 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9472
P9473	Slot4 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9473
P9475	Slot4 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9475
P9476	Slot4 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9476
P9477	Slot4 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9477
P9478	Slot4 - P4 - Last Alarm	0 = No Alarm 1 = Starter On	-	ro, enum	0	9478

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 = Air Circuit Breaker 3 = CPU overtemperature				
Slot 4 - Starter manager (SCW) - Configurations						
Slot 4 - Starter manager (SCW) - Configurations - Starters						
P9480	Slot4 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9480
P9481	Slot4 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9481
P9482	Slot4 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9482
P9483	Slot4 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9483
P9485	Slot4 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9485
P9486	Slot4 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9486
P9487	Slot4 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9487
P9488	Slot4 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9488
P9403	Slot4 - Factory Reset	0 to 65535	0	rw, 16bit	0	9403
Slot 4 - Starter manager (SCW) - Configurations - Counters						
P9450	Slot4 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9450
P9451	Slot4 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9451
P9452	Slot4 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9452
P9453	Slot4 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9453
P9454	Slot4 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9454
P9455	Slot4 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9455
P9456	Slot4 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9456
P9457	Slot4 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9457
P9458	Slot4 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9458
Slot 4 - Starter manager (SCW) - Configurations - Commands						
P9490	Slot4 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9490
P9491	Slot4 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse	0	rw, 16bit	0	9491

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 3 = Starter 4 - reverse				
P9492	Slot4 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9492
P1402	Slot 4 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1402
Slot 5 - Digital Input/Output						
Slot 5 - Digital Input/Output - Digital Outputs (DOs)						
P1502	Slot 5 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07	0	rw, 32bit	0	1502

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24				
Slot 5 - Digital Input/Output - Digital Inputs (DIs)						
P1500	Slot 5 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22	-	ro, 32bit	0	1500

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 22 = DI23 Bit 23 = DI24				
Slot 5 - Digital Input/Output - Configuration						
P1504	Slot 5 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1504
P1506	Slot 5 - Error Value	0 to 4294967295	0	rw, 32bit	0	1506
Slot 5 - Analog Input (AI, TH, RTD)						
Slot 5 - Analog Input (AI, TH, RTD) - Configuration						
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3535	Slot 5 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3535
	Slot 5 - Active Analog Input Channel - 2					3536
	Slot 5 - Active Analog Input Channel - 3					3537
	Slot 5 - Active Analog Input Channel - 4					3538
	Slot 5 - Active Analog Input Channel - 5					3539
	Slot 5 - Active Analog Input Channel - 6					3540
	Slot 5 - Active Analog Input Channel - 7					3541
	Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Type					
P3542	Slot 5 - Analog Input Channel Type - 1	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3542
	Slot 5 - Analog Input Channel Type - 2					3543
	Slot 5 - Analog Input Channel Type - 3					3544
	Slot 5 - Analog Input Channel Type - 4					3545
	Slot 5 - Analog Input Channel Type - 5					3546
	Slot 5 - Analog Input Channel Type - 6					3547
	Slot 5 - Analog Input Channel Type - 7					3548
	Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit					
P3549	Slot 5 - Analog Input Channel Unit 1 - 1	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F	0	rw, enum	0	3549
	Slot 5 - Analog Input Channel Unit 1 - 2					3550
	Slot 5 - Analog Input Channel Unit 1 - 3					3551
	Slot 5 - Analog Input Channel Unit 1 - 4					3552
	Slot 5 - Analog Input Channel Unit 1 - 5					3553
	Slot 5 - Analog Input Channel Unit 1 - 6					3554
	Slot 5 - Analog Input Channel Unit 1 - 7					3555

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 = ai: Not used / th: K / rtd: K				
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit						
P3556	Slot 5 - Decimal Digit of the Analog Input Channel - 1 Slot 5 - Decimal Digit of the Analog Input Channel - 2 Slot 5 - Decimal Digit of the Analog Input Channel - 3 Slot 5 - Decimal Digit of the Analog Input Channel - 4 Slot 5 - Decimal Digit of the Analog Input Channel - 5 Slot 5 - Decimal Digit of the Analog Input Channel - 6 Slot 5 - Decimal Digit of the Analog Input Channel - 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3556 3557 3558 3559 3560 3561 3562
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel filter						
P3563	Slot 5 - Filter of the Analog Input Channel - 1 Slot 5 - Filter of the Analog Input Channel - 2 Slot 5 - Filter of the Analog Input Channel - 3 Slot 5 - Filter of the Analog Input Channel - 4 Slot 5 - Filter of the Analog Input Channel - 5 Slot 5 - Filter of the Analog Input Channel - 6 Slot 5 - Filter of the Analog Input Channel - 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3563 3564 3565 3566 3567 3568 3569
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain						
P3570	Slot 5 - Gain of the Analog Input Channel - 1 Slot 5 - Gain of the Analog Input Channel - 2 Slot 5 - Gain of the Analog Input Channel - 3 Slot 5 - Gain of the Analog Input Channel - 4 Slot 5 - Gain of the Analog Input Channel - 5 Slot 5 - Gain of the Analog Input Channel - 6 Slot 5 - Gain of the Analog Input Channel - 7	-32768 to 32767	1000	rw, s16bit	0	3570 3571 3572 3573 3574 3575 3576
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset						
P3578	Slot 5 - Offset of the Analog Input Channel - 1 Slot 5 - Offset of the Analog Input Channel - 2 Slot 5 - Offset of the Analog Input Channel - 3 Slot 5 - Offset of the Analog Input Channel - 4 Slot 5 - Offset of the Analog Input Channel - 5	-32768 to 32767	0	rw, s16bit	0	3578 3579 3580 3581 3582

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 5 - Offset of the Analog Input Channel - 6					3583
	Slot 5 - Offset of the Analog Input Channel - 7					3584
Slot 5 - Analog Input (AI, TH, RTD) - Status						
Slot 5 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3500	Slot 5 - 16-bit processed analog input - 1	-32768 to 32767	-	ro, s16bit	0	3500
	Slot 5 - 16-bit processed analog input - 2					3501
	Slot 5 - 16-bit processed analog input - 3					3502
	Slot 5 - 16-bit processed analog input - 4					3503
	Slot 5 - 16-bit processed analog input - 5					3504
	Slot 5 - 16-bit processed analog input - 6					3505
	Slot 5 - 16-bit processed analog input - 7					3506
Slot 5 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3507	Slot 5 - Analog Channel Status - 1		-	ro, enum	0	3507
	Slot 5 - Analog Channel Status - 2					3508
	Slot 5 - Analog Channel Status - 3					3509
	Slot 5 - Analog Channel Status - 4					3510
	Slot 5 - Analog Channel Status - 5					3511
	Slot 5 - Analog Channel Status - 6					3512
	Slot 5 - Analog Channel Status - 7					3513
0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active 2 = ai: Open / th: Open / rtd: Open						
Slot 5 - Analog Output						
Slot 5 - Analog Output - Configuration						
Slot 5 - Analog Output - Configuration - Error Mode						
P5508	Slot 5 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5508
	Slot 5 - Analog Output Error Mode - 2					5509
	Slot 5 - Analog Output Error Mode - 3					5510
	Slot 5 - Analog Output Error Mode - 4					5511
	Slot 5 - Analog Output Error Mode - 5					5512
	Slot 5 - Analog Output Error Mode - 6					5513
	Slot 5 - Analog Output Error Mode - 7					5514
	Slot 5 - Analog Output Error Mode - 8					5515
Slot 5 - Analog Output - Configuration - Error Value						
P5516	Slot 5 - Analog Output Error Value - 1	-32768 to 32767	0	rw, s16bit	0	5516
	Slot 5 - Analog Output Error Value - 2					5517
	Slot 5 - Analog Output Error Value - 3					5518
	Slot 5 - Analog Output Error Value - 4					5519
	Slot 5 - Analog Output Error Value - 5					5520
	Slot 5 - Analog Output Error Value - 6					5521

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 5 - Analog Output Error Value - 7					5522
	Slot 5 - Analog Output Error Value - 8					5523
Slot 5 - Analog Output - Configuration - Channel Gain						
P5532	Slot 5 - Analog Output Channel Gain - 1	0 to 65535	1000	rw, 16bit	0	5532
	Slot 5 - Analog Output Channel Gain - 2					5533
	Slot 5 - Analog Output Channel Gain - 3					5534
	Slot 5 - Analog Output Channel Gain - 4					5535
	Slot 5 - Analog Output Channel Gain - 5					5536
	Slot 5 - Analog Output Channel Gain - 6					5537
	Slot 5 - Analog Output Channel Gain - 7					5538
	Slot 5 - Analog Output Channel Gain - 8					5539
Slot 5 - Analog Output - Configuration - Channel Offset						
P5540	Slot 5 - Analog Output Channel Offset - 1	-32768 to 32767	0	rw, s16bit	0	5540
	Slot 5 - Analog Output Channel Offset - 2					5541
	Slot 5 - Analog Output Channel Offset - 3					5542
	Slot 5 - Analog Output Channel Offset - 4					5543
	Slot 5 - Analog Output Channel Offset - 5					5544
	Slot 5 - Analog Output Channel Offset - 6					5545
	Slot 5 - Analog Output Channel Offset - 7					5546
	Slot 5 - Analog Output Channel Offset - 8					5547
Slot 5 - Analog Output - 16-Bit Analog Output Value						
P5500	Slot 5 - 16-Bit Analog Output - 1	-32768 to 32767	0	rw, s16bit	0	5500
	Slot 5 - 16-Bit Analog Output - 2					5501
	Slot 5 - 16-Bit Analog Output - 3					5502
	Slot 5 - 16-Bit Analog Output - 4					5503
	Slot 5 - 16-Bit Analog Output - 5					5504
	Slot 5 - 16-Bit Analog Output - 6					5505
	Slot 5 - 16-Bit Analog Output - 7					5506
	Slot 5 - 16-Bit Analog Output - 8					5507
Slot 5 - Analog input (SG)						
Slot 5 - Analog input (SG) - Configuration						
Slot 5 - Analog input (SG) - Configuration - Channel Enable						
P7518	Slot 5 - Enables Analog Channel - 1	0 = Inactive 1 = Active	1	rw, enum	0	7518
	Slot 5 - Enables Analog Channel - 2					7519
Slot 5 - Analog input (SG) - Configuration - Channel Unit						
P7520	Slot 5 - Analog Channel Unit - 1	0 = g	0	rw, enum	0	7520
	Slot 5 - Analog Channel Unit - 2					7521

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		1 = kg 2 = t				
Slot 5 - Analog input (SG) - Configuration - Channel filter						
P7522	Slot 5 - Analog Channel Filter - 1 Slot 5 - Analog Channel Filter - 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7522 7523
Slot 5 - Analog input (SG) - Configuration - Channel Gain						
P7524	Slot 5 - Analog Channel Gain - 1 Slot 5 - Analog Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	0	7524 7525
Slot 5 - Analog input (SG) - Configuration - Channel Offset						
P7526	Slot 5 - Analog Channel Offset - 1 Slot 5 - Analog Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	0	7526 7528
Slot 5 - Analog input (SG) - Configuration - Channel Full Scale						
P7530	Slot 5 - Analog Channel Full Scale - 1 Slot 5 - Analog Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	0	7530 7531
Slot 5 - Analog input (SG) - Configuration - Channel Sensitivity						
P7532	Slot 5 - Analog Channel Sensitivity - 1 Slot 5 - Analog Channel Sensitivity - 2	0 to 255	2	rw, 8bit	0	7532 7533
Slot 5 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7534	Slot 5 - Analog Channel Sampling Rate - 1 Slot 5 - Analog Channel Sampling Rate - 2	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms) 3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms)	4	rw, enum	0	7534 7535
Slot 5 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7536	Slot 5 - Maximum Analog Channel Variation - 1 Slot 5 - Maximum Analog Channel Variation - 2	0 to 4294967295	100000	rw, 32bit	0	7536 7538
Slot 5 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7540	Slot 5 - Analog Channel Discard Value - 1 Slot 5 - Analog Channel Discard Value - 2	0 = Maintain	0	rw, enum	0	7540 7541

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		1 = Discard				
Slot 5 - Analog input (SG) - Configuration - Filter Time Constant						
P7542	Slot 5 - Analog Channel Filter - 1	0 to 65535	0	rw, 16bit	0	7542
	Slot 5 - Analog Channel Filter - 2					7543
Slot 5 - Analog input (SG) - Configuration - Channel Variation Step						
P7544	Slot 5 - Analog Channel Variation Step - 1	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7544
	Slot 5 - Analog Channel Variation Step - 2					7545
Slot 5 - Analog input (SG) - Status						
Slot 5 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7500	Slot 5 - Weight (g, kg, t) 16 Bit - 1	-32768 to 32767	-	ro, s16bit	0	7500
	Slot 5 - Weight (g, kg, t) 16 Bit - 2					7501
Slot 5 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7502	Slot 5 - Weight (g, kg, t) 32 Bit - 1	-2147483648 to 2147483647	-	ro, s32bit	0	7502
	Slot 5 - Weight (g, kg, t) 32 Bit - 2					7504
Slot 5 - Analog input (SG) - Status - Analog SG Channel Status						
P7506	Slot 5 - Analog Channel Status - 1	0 = Inactive 1 = Active	-	ro, enum	0	7506
	Slot 5 - Analog Channel Status - 2					7507
Slot 5 - Starter manager (SCW)						
Slot 5 - Starter manager (SCW) - Status						
Slot 5 - Starter manager (SCW) - Status - Product Information						
P1500	Slot 5 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12	-	ro, 32bit	0	1500

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9502	Slot5 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9502
Slot 5 - Starter manager (SCW) - Status - Starters						
P9510	Slot5 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9510
P9511	Slot5 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9511
P9512	Slot5 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9512
P9513	Slot5 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9513
P9514	Slot5 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9514
P9515	Slot5 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9515
P9516	Slot5 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9516
P9517	Slot5 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9517
P9518	Slot5 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9518
P9519	Slot5 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9519
P9520	Slot5 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9520
P9521	Slot5 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9521
P9522	Slot5 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9522
P9523	Slot5 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9523
P9524	Slot5 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9524
P9525	Slot5 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9525
P9530	Slot5 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9530
P9532	Slot5 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9532
P9534	Slot5 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9534
P9536	Slot5 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9536
P9538	Slot5 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9538
P9540	Slot5 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9540
P9542	Slot5 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9542
P9544	Slot5 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9544
P9560	Slot5 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil	-	ro, enum	0	9560

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		3 = Starter OK. 4 = Energized coil				
P9561	Slot5 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9561
P9562	Slot5 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9562
P9563	Slot5 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9563
P9564	Slot5 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9564
P9565	Slot5 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9565
P9566	Slot5 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9566
P9567	Slot5 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9567
Slot 5 - Starter manager (SCW) - Status - Errors and Alarms						
P9570	Slot5 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9570

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9571	Slot5 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9571
P9572	Slot5 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9572
P9573	Slot5 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9573
P9575	Slot5 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9575
P9576	Slot5 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9576
P9577	Slot5 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9577
P9578	Slot5 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9578

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 5 - Starter manager (SCW) - Configurations						
Slot 5 - Starter manager (SCW) - Configurations - Starters						
P9580	Slot5 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9580
P9581	Slot5 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9581
P9582	Slot5 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9582
P9583	Slot5 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9583
P9585	Slot5 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9585
P9586	Slot5 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9586
P9587	Slot5 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9587
P9588	Slot5 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9588
P9503	Slot5 - Factory Reset	0 to 65535	0	rw, 16bit	0	9503
Slot 5 - Starter manager (SCW) - Configurations - Counters						
P9550	Slot5 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9550
P9551	Slot5 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9551
P9552	Slot5 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9552
P9553	Slot5 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9553
P9554	Slot5 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9554
P9555	Slot5 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9555
P9556	Slot5 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9556
P9557	Slot5 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9557
P9558	Slot5 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9558
Slot 5 - Starter manager (SCW) - Configurations - Commands						
P9590	Slot5 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9590
P9591	Slot5 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9591
P9592	Slot5 - Stop Command		0	rw, 16bit	0	9592

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off				
P1502	Slot 5 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1502
Slot 6 - Digital Input/Output						
Slot 6 - Digital Input/Output - Digital Outputs (DOs)						
P1602	Slot 6 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09	0	rw, 32bit	0	1602

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24				
Slot 6 - Digital Input/Output - Digital Inputs (DIs)						
P1600	Slot 6 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1600

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 6 - Digital Input/Output - Configuration						
P1604	Slot 6 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1604
P1606	Slot 6 - Error Value	0 to 4294967295	0	rw, 32bit	0	1606
Slot 6 - Analog Input (AI, TH, RTD)						
Slot 6 - Analog Input (AI, TH, RTD) - Configuration						
Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3635	Slot 6 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3635
	Slot 6 - Active Analog Input Channel - 2					3636
	Slot 6 - Active Analog Input Channel - 3					3637
	Slot 6 - Active Analog Input Channel - 4					3638
	Slot 6 - Active Analog Input Channel - 5					3639
	Slot 6 - Active Analog Input Channel - 6					3640
	Slot 6 - Active Analog Input Channel - 7					3641
	Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel Type					
P3642	Slot 6 - Analog Input Channel Type - 1	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3642
	Slot 6 - Analog Input Channel Type - 2					3643
	Slot 6 - Analog Input Channel Type - 3					3644
	Slot 6 - Analog Input Channel Type - 4					3645
	Slot 6 - Analog Input Channel Type - 5					3646
	Slot 6 - Analog Input Channel Type - 6					3647
	Slot 6 - Analog Input Channel Type - 7					3648
	Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit					
P3649	Slot 6 - Analog Input Channel Unit 1 - 1	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3649
	Slot 6 - Analog Input Channel Unit 1 - 2					3650
	Slot 6 - Analog Input Channel Unit 1 - 3					3651
	Slot 6 - Analog Input Channel Unit 1 - 4					3652
	Slot 6 - Analog Input Channel Unit 1 - 5					3653
	Slot 6 - Analog Input Channel Unit 1 - 6					3654
	Slot 6 - Analog Input Channel Unit 1 - 7					3655
	Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit					

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P3656	Slot 6 - Decimal Digit of the Analog Input Channel - 1	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3656
	Slot 6 - Decimal Digit of the Analog Input Channel - 2					3657
	Slot 6 - Decimal Digit of the Analog Input Channel - 3					3658
	Slot 6 - Decimal Digit of the Analog Input Channel - 4					3659
	Slot 6 - Decimal Digit of the Analog Input Channel - 5					3660
	Slot 6 - Decimal Digit of the Analog Input Channel - 6					3661
	Slot 6 - Decimal Digit of the Analog Input Channel - 7					3662
	Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel filter					
P3663	Slot 6 - Filter of the Analog Input Channel - 1	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3663
	Slot 6 - Filter of the Analog Input Channel - 2					3664
	Slot 6 - Filter of the Analog Input Channel - 3					3665
	Slot 6 - Filter of the Analog Input Channel - 4					3666
	Slot 6 - Filter of the Analog Input Channel - 5					3667
	Slot 6 - Filter of the Analog Input Channel - 6					3668
	Slot 6 - Filter of the Analog Input Channel - 7					3669
	Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain					
P3670	Slot 6 - Gain of the Analog Input Channel - 1	-32768 to 32767	1000	rw, s16bit	0	3670
	Slot 6 - Gain of the Analog Input Channel - 2					3671
	Slot 6 - Gain of the Analog Input Channel - 3					3672
	Slot 6 - Gain of the Analog Input Channel - 4					3673
	Slot 6 - Gain of the Analog Input Channel - 5					3674
	Slot 6 - Gain of the Analog Input Channel - 6					3675
	Slot 6 - Gain of the Analog Input Channel - 7					3676
	Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset					
P3678	Slot 6 - Offset of the Analog Input Channel - 1	-32768 to 32767	0	rw, s16bit	0	3678
	Slot 6 - Offset of the Analog Input Channel - 2					3679
	Slot 6 - Offset of the Analog Input Channel - 3					3680
	Slot 6 - Offset of the Analog Input Channel - 4					3681
	Slot 6 - Offset of the Analog Input Channel - 5					3682
	Slot 6 - Offset of the Analog Input Channel - 6					3683
	Slot 6 - Offset of the Analog Input Channel - 7					3684

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 6 - Analog Input (AI, TH, RTD) - Status						
Slot 6 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3600	Slot 6 - 16-bit processed analog input - 1	-32768 to 32767	-	ro, s16bit	0	3600
	Slot 6 - 16-bit processed analog input - 2					3601
	Slot 6 - 16-bit processed analog input - 3					3602
	Slot 6 - 16-bit processed analog input - 4					3603
	Slot 6 - 16-bit processed analog input - 5					3604
	Slot 6 - 16-bit processed analog input - 6					3605
	Slot 6 - 16-bit processed analog input - 7					3606
Slot 6 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3607	Slot 6 - Analog Channel Status - 1		-	ro, enum	0	3607
	Slot 6 - Analog Channel Status - 2					3608
	Slot 6 - Analog Channel Status - 3					3609
	Slot 6 - Analog Channel Status - 4					3610
	Slot 6 - Analog Channel Status - 5					3611
	Slot 6 - Analog Channel Status - 6					3612
	Slot 6 - Analog Channel Status - 7					3613
0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open						
Slot 6 - Analog Output						
Slot 6 - Analog Output - Configuration						
Slot 6 - Analog Output - Configuration - Error Mode						
P5608	Slot 6 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5608
	Slot 6 - Analog Output Error Mode - 2					5609
	Slot 6 - Analog Output Error Mode - 3					5610
	Slot 6 - Analog Output Error Mode - 4					5611
	Slot 6 - Analog Output Error Mode - 5					5612
	Slot 6 - Analog Output Error Mode - 6					5613
	Slot 6 - Analog Output Error Mode - 7					5614
	Slot 6 - Analog Output Error Mode - 8					5615
Slot 6 - Analog Output - Configuration - Error Value						
P5616	Slot 6 - Analog Output Error Value - 1	-32768 to 32767	0	rw, s16bit	0	5616
	Slot 6 - Analog Output Error Value - 2					5617
	Slot 6 - Analog Output Error Value - 3					5618
	Slot 6 - Analog Output Error Value - 4					5619
	Slot 6 - Analog Output Error Value - 5					5620
	Slot 6 - Analog Output Error Value - 6					5621
	Slot 6 - Analog Output Error Value - 7					5622
	Slot 6 - Analog Output Error Value - 8					5623

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 6 - Analog Output - Configuration - Channel Gain						
P5632	Slot 6 - Analog Output Channel Gain - 1	0 to 65535	1000	rw, 16bit	0	5632
	Slot 6 - Analog Output Channel Gain - 2					5633
	Slot 6 - Analog Output Channel Gain - 3					5634
	Slot 6 - Analog Output Channel Gain - 4					5635
	Slot 6 - Analog Output Channel Gain - 5					5636
	Slot 6 - Analog Output Channel Gain - 6					5637
	Slot 6 - Analog Output Channel Gain - 7					5638
	Slot 6 - Analog Output Channel Gain - 8					5639
Slot 6 - Analog Output - Configuration - Channel Offset						
P5640	Slot 6 - Analog Output Channel Offset - 1	-32768 to 32767	0	rw, s16bit	0	5640
	Slot 6 - Analog Output Channel Offset - 2					5641
	Slot 6 - Analog Output Channel Offset - 3					5642
	Slot 6 - Analog Output Channel Offset - 4					5643
	Slot 6 - Analog Output Channel Offset - 5					5644
	Slot 6 - Analog Output Channel Offset - 6					5645
	Slot 6 - Analog Output Channel Offset - 7					5646
	Slot 6 - Analog Output Channel Offset - 8					5647
Slot 6 - Analog Output - 16-Bit Analog Output Value						
P5600	Slot 6 - 16-Bit Analog Output - 1	-32768 to 32767	0	rw, s16bit	0	5600
	Slot 6 - 16-Bit Analog Output - 2					5601
	Slot 6 - 16-Bit Analog Output - 3					5602
	Slot 6 - 16-Bit Analog Output - 4					5603
	Slot 6 - 16-Bit Analog Output - 5					5604
	Slot 6 - 16-Bit Analog Output - 6					5605
	Slot 6 - 16-Bit Analog Output - 7					5606
	Slot 6 - 16-Bit Analog Output - 8					5607
Slot 6 - Analog input (SG)						
Slot 6 - Analog input (SG) - Configuration						
Slot 6 - Analog input (SG) - Configuration - Channel Enable						
P7618	Slot 6 - Enables Analog Channel - 1	0 = Inactive 1 = Active	1	rw, enum	0	7618
	Slot 6 - Enables Analog Channel - 2					7619
Slot 6 - Analog input (SG) - Configuration - Channel Unit						
P7620	Slot 6 - Analog Channel Unit - 1	0 = g 1 = kg 2 = t	0	rw, enum	0	7620
	Slot 6 - Analog Channel Unit - 2					7621

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 6 - Analog input (SG) - Configuration - Channel filter						
P7622	Slot 6 - Analog Channel Filter - 1 Slot 6 - Analog Channel Filter - 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7622 7623
Slot 6 - Analog input (SG) - Configuration - Channel Gain						
P7624	Slot 6 - Analog Channel Gain - 1 Slot 6 - Analog Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	0	7624 7625
Slot 6 - Analog input (SG) - Configuration - Channel Offset						
P7626	Slot 6 - Analog Channel Offset - 1 Slot 6 - Analog Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	0	7626 7628
Slot 6 - Analog input (SG) - Configuration - Channel Full Scale						
P7630	Slot 6 - Analog Channel Full Scale - 1 Slot 6 - Analog Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	0	7630 7631
Slot 6 - Analog input (SG) - Configuration - Channel Sensitivity						
P7632	Slot 6 - Analog Channel Sensitivity - 1 Slot 6 - Analog Channel Sensitivity - 2	0 to 255	2	rw, 8bit	0	7632 7633
Slot 6 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7634	Slot 6 - Analog Channel Sampling Rate - 1 Slot 6 - Analog Channel Sampling Rate - 2	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms) 3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms)	4	rw, enum	0	7634 7635
Slot 6 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7636	Slot 6 - Maximum Analog Channel Variation - 1 Slot 6 - Maximum Analog Channel Variation - 2	0 to 4294967295	100000	rw, 32bit	0	7636 7638
Slot 6 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7640	Slot 6 - Analog Channel Discard Value - 1 Slot 6 - Analog Channel Discard Value - 2	0 = Maintain 1 = Discard	0	rw, enum	0	7640 7641
Slot 6 - Analog input (SG) - Configuration - Filter Time Constant						

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P7642	Slot 6 - Analog Channel Filter - 1	0 to 65535	0	rw, 16bit	0	7642
	Slot 6 - Analog Channel Filter - 2					7643
Slot 6 - Analog input (SG) - Configuration - Channel Variation Step						
P7644	Slot 6 - Analog Channel Variation Step - 1	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7644
	Slot 6 - Analog Channel Variation Step - 2					7645
Slot 6 - Analog input (SG) - Status						
Slot 6 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7600	Slot 6 - Weight (g, kg, t) 16 Bit - 1	-32768 to 32767	-	ro, s16bit	0	7600
	Slot 6 - Weight (g, kg, t) 16 Bit - 2					7601
Slot 6 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7602	Slot 6 - Weight (g, kg, t) 32 Bit - 1	-2147483648 to 2147483647	-	ro, s32bit	0	7602
	Slot 6 - Weight (g, kg, t) 32 Bit - 2					7604
Slot 6 - Analog input (SG) - Status - SG Analog Channel Status						
P7606	Slot 6 - Analog Channel Status - 1	0 = Inactive 1 = Active	-	ro, enum	0	7606
	Slot 6 - Analog Channel Status - 2					7607
Slot 6 - Starter manager (SCW)						
Slot 6 - Starter manager (SCW) - Status						
Slot 6 - Starter manager (SCW) - Status - Product Information						
P1600	Slot 6 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14	-	ro, 32bit	0	1600

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9602	Slot6 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9602
Slot 6 - Starter manager (SCW) - Status - Starters						
P9610	Slot6 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9610
P9611	Slot6 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9611
P9612	Slot6 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9612
P9613	Slot6 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9613
P9614	Slot6 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9614
P9615	Slot6 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9615
P9616	Slot6 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9616
P9617	Slot6 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9617
P9618	Slot6 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9618
P9619	Slot6 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9619
P9620	Slot6 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9620
P9621	Slot6 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9621
P9622	Slot6 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9622
P9623	Slot6 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9623
P9624	Slot6 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9624
P9625	Slot6 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9625
P9630	Slot6 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9630
P9632	Slot6 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9632
P9634	Slot6 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9634
P9636	Slot6 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9636
P9638	Slot6 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9638
P9640	Slot6 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9640
P9642	Slot6 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9642
P9644	Slot6 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9644
P9660	Slot6 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9660

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9661	Slot6 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9661
P9662	Slot6 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9662
P9663	Slot6 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9663
P9664	Slot6 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9664
P9665	Slot6 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9665
P9666	Slot6 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9666
P9667	Slot6 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9667
Slot 6 - Starter manager (SCW) - Status - Errors and Alarms						
P9670	Slot6 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9670
P9671	Slot6 - P2 - Last Error	0 = No Error 1 = Stuck Contact	-	ro, enum	0	9671

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor				
P9672	Slot6 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9672
P9673	Slot6 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9673
P9675	Slot6 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9675
P9676	Slot6 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9676
P9677	Slot6 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9677
P9678	Slot6 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9678
Slot 6 - Starter manager (SCW) - Configurations						
Slot 6 - Starter manager (SCW) - Configurations - Starters						
P9680	Slot6 - P1 - Operation Mode		0	rw, 8bit	0	9680

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		0 = Starter 1 = Transparent				
P9681	Slot6 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9681
P9682	Slot6 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9682
P9683	Slot6 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9683
P9680	Slot6 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9680
P9686	Slot6 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9686
P9687	Slot6 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9687
P9688	Slot6 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9688
P9603	Slot6 - Factory Reset	0 to 65535	0	rw, 16bit	0	9603
Slot 6 - Starter manager (SCW) - Configurations - Counters						
P9650	Slot6 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9650
P9651	Slot6 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9651
P9652	Slot6 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9652
P9653	Slot6 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9653
P9654	Slot6 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9654
P9655	Slot6 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9655
P9656	Slot6 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9656
P9657	Slot6 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9657
P9658	Slot6 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9658
Slot 6 - Starter manager (SCW) - Configurations - Commands						
P9690	Slot6 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9690
P9691	Slot6 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9691
P9692	Slot6 - Stop Command	Bit 0 = Starter 1 - turn off	0	rw, 16bit	0	9692

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off				
P1602	Slot 6 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1602
Slot 7 - Digital Input/Output						
Slot 7 - Digital Input/Output - Digital Outputs (DOs)						
P1702	Slot 7 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10	0	rw, 32bit	0	1702

[illegible]

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P1704	Slot 7 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1704
P1706	Slot 7 - Error Value	0 to 4294967295	0	rw, 32bit	0	1706
Slot 7 - Analog Input (AI, TH, RTD)						
Slot 7 - Analog Input (AI, TH, RTD) - Configuration						
Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3735	Slot 7 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3735
	Slot 7 - Active Analog Input Channel - 2					3736
	Slot 7 - Active Analog Input Channel - 3					3737
	Slot 7 - Active Analog Input Channel - 4					3738
	Slot 7 - Active Analog Input Channel - 5					3739
	Slot 7 - Active Analog Input Channel - 6					3740
	Slot 7 - Active Analog Input Channel - 7					3741
	Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Channel Type					
P3742	Slot 7 - Analog Input Channel Type - 1	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3742
	Slot 7 - Analog Input Channel Type - 2					3743
	Slot 7 - Analog Input Channel Type - 3					3744
	Slot 7 - Analog Input Channel Type - 4					3745
	Slot 7 - Analog Input Channel Type - 5					3746
	Slot 7 - Analog Input Channel Type - 6					3747
	Slot 7 - Analog Input Channel Type - 7					3748
	Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit					
P3749	Slot 7 - Analog Input Channel Unit 1 - 1	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3749
	Slot 7 - Analog Input Channel Unit 1 - 2					3750
	Slot 7 - Analog Input Channel Unit 1 - 3					3751
	Slot 7 - Analog Input Channel Unit 1 - 4					3752
	Slot 7 - Analog Input Channel Unit 1 - 5					3753
	Slot 7 - Analog Input Channel Unit 1 - 6					3754
	Slot 7 - Analog Input Channel Unit 1 - 7					3755
	Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit					
P3756	Slot 7 - Decimal Digit of the Analog Input Channel - 1		1	rw, enum	0	3756

[illegible]

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 7 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3700	Slot 7 - 16-bit processed analog input - 1	-32768 to 32767	-	ro, s16bit	0	3700
	Slot 7 - 16-bit processed analog input - 2					3701
	Slot 7 - 16-bit processed analog input - 3					3702
	Slot 7 - 16-bit processed analog input - 4					3703
	Slot 7 - 16-bit processed analog input - 5					3704
	Slot 7 - 16-bit processed analog input - 6					3705
	Slot 7 - 16-bit processed analog input - 7					3706
Slot 7 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3707	Slot 7 - Analog Channel Status - 1		-	ro, enum	0	3707
	Slot 7 - Analog Channel Status - 2					3708
	Slot 7 - Analog Channel Status - 3					3709
	Slot 7 - Analog Channel Status - 4					3710
	Slot 7 - Analog Channel Status - 5					3711
	Slot 7 - Analog Channel Status - 6					3712
	Slot 7 - Analog Channel Status - 7					3713
0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open						
Slot 7 - Analog Output						
Slot 7 - Analog Output - Configuration						
Slot 7 - Analog Output - Configuration - Error Mode						
P5708	Slot 7 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5708
	Slot 7 - Analog Output Error Mode - 2					5709
	Slot 7 - Analog Output Error Mode - 3					5710
	Slot 7 - Analog Output Error Mode - 4					5711
	Slot 7 - Analog Output Error Mode - 5					5712
	Slot 7 - Analog Output Error Mode - 6					5713
	Slot 7 - Analog Output Error Mode - 7					5714
	Slot 7 - Analog Output Error Mode - 8					5715
Slot 7 - Analog Output - Configuration - Error Value						
P5716	Slot 7 - Analog Output Error Value - 1	-32768 to 32767	0	rw, s16bit	0	5716
	Slot 7 - Analog Output Error Value - 2					5717
	Slot 7 - Analog Output Error Value - 3					5718
	Slot 7 - Analog Output Error Value - 4					5719
	Slot 7 - Analog Output Error Value - 5					5720
	Slot 7 - Analog Output Error Value - 6					5721
	Slot 7 - Analog Output Error Value - 7					5722
	Slot 7 - Analog Output Error Value - 8					5723
Slot 7 - Analog Output - Configuration - Channel Gain						

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P5732	Slot 7 - Analog Output Channel Gain - 1	0 to 65535	1000	rw, 16bit	0	5732
	Slot 7 - Analog Output Channel Gain - 2					5733
	Slot 7 - Analog Output Channel Gain - 3					5734
	Slot 7 - Analog Output Channel Gain - 4					5735
	Slot 7 - Analog Output Channel Gain - 5					5736
	Slot 7 - Analog Output Channel Gain - 6					5737
	Slot 7 - Analog Output Channel Gain - 7					5738
	Slot 7 - Analog Output Channel Gain - 8					5739
Slot 7 - Analog Output - Configuration - Channel Offset						
P5740	Slot 7 - Analog Output Channel Offset - 1	-32768 to 32767	0	rw, s16bit	0	5740
	Slot 7 - Analog Output Channel Offset - 2					5741
	Slot 7 - Analog Output Channel Offset - 3					5742
	Slot 7 - Analog Output Channel Offset - 4					5743
	Slot 7 - Analog Output Channel Offset - 5					5744
	Slot 7 - Analog Output Channel Offset - 6					5745
	Slot 7 - Analog Output Channel Offset - 7					5746
	Slot 7 - Analog Output Channel Offset - 8					5747
Slot 7 - Analog Output - 16-Bit Analog Output Value						
P5700	Slot 7 - 16-Bit Analog Output Value - 1	-32768 to 32767	0	rw, s16bit	0	5700
	Slot 7 - 16-Bit Analog Output Value - 2					5701
	Slot 7 - 16-Bit Analog Output Value - 3					5702
	Slot 7 - 16-Bit Analog Output Value - 4					5703
	Slot 7 - 16-Bit Analog Output Value - 5					5704
	Slot 7 - 16-Bit Analog Output Value - 6					5705
	Slot 7 - 16-Bit Analog Output Value - 7					5706
	Slot 7 - 16-Bit Analog Output Value - 8					5707
Slot 7 - Analog input (SG)						
Slot 7 - Analog input (SG) - Configuration						
Slot 7 - Analog input (SG) - Configuration - Channel Enable						
P7718	Slot 7 - Enables Analog Channel - 1	0 = Inactive 1 = Active	1	rw, enum	0	7718
	Slot 7 - Enables Analog Channel - 2					7719
Slot 7 - Analog input (SG) - Configuration - Channel Unit						
P7720	Slot 7 - Analog Channel Unit - 1	0 = g 1 = kg 2 = t	0	rw, enum	0	7720
	Slot 7 - Analog Channel Unit - 2					7721
Slot 7 - Analog input (SG) - Configuration - Channel filter						

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P7722	Slot 7 - Analog Channel Filter - 1	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7722
	Slot 7 - Analog Channel Filter - 2					7723
Slot 7 - Analog input (SG) - Configuration - Channel Gain						
P7724	Slot 7 - Analog Channel Gain - 1	-32768 to 32767	1000	rw, s16bit	0	7724
	Slot 7 - Analog Channel Gain - 2					7725
Slot 7 - Analog input (SG) - Configuration - Channel Offset						
P7726	Slot 7 - Analog Channel Offset - 1	-2147483648 to 2147483647	0	rw, s32bit	0	7726
	Slot 7 - Analog Channel Offset - 2					7728
Slot 7 - Analog input (SG) - Configuration - Channel Full Scale						
P7730	Slot 7 - Analog Channel Full Scale - 1	0 to 65535	10000	rw, 16bit	0	7730
	Slot 7 - Analog Channel Full Scale - 2					7731
Slot 7 - Analog input (SG) - Configuration - Channel Sensitivity						
P7732	Slot 7 - Analog Channel Sensitivity - 1	0 to 255	2	rw, 8bit	0	7732
	Slot 7 - Analog Channel Sensitivity - 2					7733
Slot 7 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7734	Slot 7 - Analog Channel Sampling Rate - 1	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms) 3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms)	4	rw, enum	0	7734
	Slot 7 - Analog Channel Sampling Rate - 2					7735
Slot 7 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7736	Slot 7 - Maximum Analog Channel Variation - 1	0 to 4294967295	100000	rw, 32bit	0	7736
	Slot 7 - Maximum Analog Channel Variation - 2					7738
Slot 7 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7740	Slot 7 - Analog Channel Discard Value - 1	0 = Maintain 1 = Discard	0	rw, enum	0	7740
	Slot 7 - Analog Channel Discard Value - 2					7741
Slot 7 - Analog input (SG) - Configuration - Filter Time Constant						
P7742	Slot 7 - Analog Channel Filter - 1	0 to 65535	0	rw, 16bit	0	7742

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 7 - Analog Channel Filter - 2					7743
Slot 7 - Analog input (SG) - Configuration - Channel Variation Step						
P7744	Slot 7 - Analog Channel Variation Step - 1	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7744
	Slot 7 - Analog Channel Variation Step - 2					7745
Slot 7 - Analog input (SG) - Status						
Slot 7 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7700	Slot 7 - Weight (g, kg, t) 16 Bit - 1	-32768 to 32767	-	ro, s16bit	0	7700
	Slot 7 - Weight (g, kg, t) 16 Bit - 2					7701
Slot 7 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7702	Slot 7 - Weight (g, kg, t) 32 Bit - 1	-2147483648 to 2147483647	-	ro, s32bit	0	7702
	Slot 7 - Weight (g, kg, t) 32 Bit - 2					7704
Slot 7 - Analog input (SG) - Status - SG Analog Channel Status						
P7706	Slot 7 - Analog Channel Status - 1	0 = Inactive 1 = Active	-	ro, enum	0	7706
	Slot 7 - Analog Channel Status - 2					7707
Slot 7 - Starter manager (SCW)						
Slot 7 - Starter manager (SCW) - Status						
Slot 7 - Starter manager (SCW) - Status - Product Information						
P1700	Slot 7 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15	-	ro, 32bit	0	1700

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9702	Slot7 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9702
Slot 7 - Starter manager (SCW) - Status - Starters						
P9710	Slot7 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9710
P9711	Slot7 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9711
P9712	Slot7 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9712
P9713	Slot7 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9713
P9714	Slot7 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9714
P9715	Slot7 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9715
P9716	Slot7 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9716
P9717	Slot7 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9717
P9718	Slot7 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9718
P9719	Slot7 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9719
P9720	Slot7 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9720
P9721	Slot7 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9721
P9722	Slot7 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9722
P9723	Slot7 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9723
P9724	Slot7 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9724
P9725	Slot7 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9725
P9730	Slot7 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9730
P9732	Slot7 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9732
P9734	Slot7 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9734
P9736	Slot7 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9736
P9738	Slot7 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9738
P9740	Slot7 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9740
P9742	Slot7 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9742
P9744	Slot7 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9744
P9760	Slot7 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9760
P9761	Slot7 - P1 Status - Direction and Errors		-	ro, 16bit	0	9761

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm				
P9762	Slot7 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9762
P9763	Slot7 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9763
P9764	Slot7 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9764
P9765	Slot7 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9765
P9766	Slot7 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9766
P9767	Slot7 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9767
Slot 7 - Starter manager (SCW) - Status - Errors and Alarms						
P9770	Slot7 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9770
P9771	Slot7 - P2 - Last Error	0 = No Error 1 = Stuck Contact	-	ro, enum	0	9771

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor				
P9772	Slot7 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9772
P9773	Slot7 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9773
P9775	Slot7 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9775
P9776	Slot7 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9776
P9777	Slot7 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9777
P9778	Slot7 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9778
Slot 7 - Starter manager (SCW) - Configurations						
Slot 7 - Starter manager (SCW) - Configurations - Starters						
P9780	Slot7 - P1 - Operation Mode		0	rw, 8bit	0	9780

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		0 = Starter 1 = Transparent				
P9781	Slot7 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9781
P9782	Slot7 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9782
P9780	Slot7 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9780
P9785	Slot7 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9785
P9786	Slot7 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9786
P9787	Slot7 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9787
P9788	Slot7 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9788
P9703	Slot7 - Factory Reset	0 to 65535	0	rw, 16bit	0	9703
Slot 7 - Starter manager (SCW) - Configurations - Counters						
P9750	Slot7 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9750
P9751	Slot7 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9751
P9752	Slot7 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9752
P9753	Slot7 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9753
P9754	Slot7 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9754
P9755	Slot7 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9755
P9756	Slot7 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9756
P9757	Slot7 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9757
P9758	Slot7 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9758
Slot 7 - Starter manager (SCW) - Configurations - Commands						
P9790	Slot7 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9790
P9791	Slot7 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9791
P9792	Slot7 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off	0	rw, 16bit	0	9792

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 3 = Starter 4 - turn off				
P1702	Slot 7 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1702
Slot 8 - Digital Input/Output						
Slot 8 - Digital Input/Output - Digital Outputs (DOs)						
P1802	Slot 8 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12	0	rw, 32bit	0	1802

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24				
Slot 8 - Digital Input/Output - Digital Inputs (DIs)						
P1800	Slot 8 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1800
Slot 8 - Digital Input/Output - Configuration						
P1804	Slot 8 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1804
P1806	Slot 8 - Error Value	0 to 4294967295	0	rw, 32bit	0	1806

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
Slot 8 - Analog Input (AI, TH, RTD)						
Slot 8 - Analog Input (AI, TH, RTD) - Configuration						
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Active Channel						
P3835	Slot 8 - Active Analog Input Channel - 1	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3835
	Slot 8 - Active Analog Input Channel - 2					3836
	Slot 8 - Active Analog Input Channel - 3					3837
	Slot 8 - Active Analog Input Channel - 4					3838
	Slot 8 - Active Analog Input Channel - 5					3839
	Slot 8 - Active Analog Input Channel - 6					3840
	Slot 8 - Active Analog Input Channel - 7					3841
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Type						
P3842	Slot 8 - Analog Input Channel Type - 1	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3842
	Slot 8 - Analog Input Channel Type - 2					3843
	Slot 8 - Analog Input Channel Type - 3					3844
	Slot 8 - Analog Input Channel Type - 4					3845
	Slot 8 - Analog Input Channel Type - 5					3846
	Slot 8 - Analog Input Channel Type - 6					3847
	Slot 8 - Analog Input Channel Type - 7					3848
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit						
P3849	Slot 8 - Analog Input Channel Unit 1 - 1	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3849
	Slot 8 - Analog Input Channel Unit 1 - 2					3850
	Slot 8 - Analog Input Channel Unit 1 - 3					3851
	Slot 8 - Analog Input Channel Unit 1 - 4					3852
	Slot 8 - Analog Input Channel Unit 1 - 5					3853
	Slot 8 - Analog Input Channel Unit 1 - 6					3854
	Slot 8 - Analog Input Channel Unit 1 - 7					3855
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit						
P3856	Slot 8 - Decimal Digit of the Analog Input Channel - 1		1	rw, enum	0	3856
	Slot 8 - Decimal Digit of the Analog Input Channel - 2					3857
	Slot 8 - Decimal Digit of the Analog Input Channel - 3					3858

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 8 - Decimal Digit of the Analog Input Channel - 4 Slot 8 - Decimal Digit of the Analog Input Channel - 5 Slot 8 - Decimal Digit of the Analog Input Channel - 6 Slot 8 - Decimal Digit of the Analog Input Channel - 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1				3859 3860 3861 3862
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel filter						
P3863	Slot 8 - Filter of the Analog Input Channel - 1 Slot 8 - Filter of the Analog Input Channel - 2 Slot 8 - Filter of the Analog Input Channel - 3 Slot 8 - Filter of the Analog Input Channel - 4 Slot 8 - Filter of the Analog Input Channel - 5 Slot 8 - Filter of the Analog Input Channel - 6 Slot 8 - Filter of the Analog Input Channel - 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3863 3864 3865 3866 3867 3868 3869
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain						
P3870	Slot 8 - Gain of the Analog Input Channel - 1 Slot 8 - Gain of the Analog Input Channel - 2 Slot 8 - Gain of the Analog Input Channel - 3 Slot 8 - Gain of the Analog Input Channel - 4 Slot 8 - Gain of the Analog Input Channel - 5 Slot 8 - Gain of the Analog Input Channel - 6 Slot 8 - Gain of the Analog Input Channel - 7	-32768 to 32767	1000	rw, s16bit	0	3870 3871 3872 3873 3874 3875 3876
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset						
P3878	Slot 8 - Offset of the Analog Input Channel - 1 Slot 8 - Offset of the Analog Input Channel - 2 Slot 8 - Offset of the Analog Input Channel - 3 Slot 8 - Offset of the Analog Input Channel - 4 Slot 8 - Offset of the Analog Input Channel - 5 Slot 8 - Offset of the Analog Input Channel - 6 Slot 8 - Offset of the Analog Input Channel - 7	-32768 to 32767	0	rw, s16bit	0	3878 3879 3880 3881 3882 3883 3884
Slot 8 - Analog Input (AI, TH, RTD) - Status						
Slot 8 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input						
P3800	Slot 8 - 16-bit processed analog input - 1	-32768 to 32767	-	ro, s16bit	0	3800

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 8 - 16-bit processed analog input - 2					3801
	Slot 8 - 16-bit processed analog input - 3					3802
	Slot 8 - 16-bit processed analog input - 4					3803
	Slot 8 - 16-bit processed analog input - 5					3804
	Slot 8 - 16-bit processed analog input - 6					3805
	Slot 8 - 16-bit processed analog input - 7					3806
Slot 8 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status						
P3807	Slot 8 - Analog Channel Status - 1		-	ro, enum	0	3807
	Slot 8 - Analog Channel Status - 2					3808
	Slot 8 - Analog Channel Status - 3					3809
	Slot 8 - Analog Channel Status - 4					3810
	Slot 8 - Analog Channel Status - 5					3811
	Slot 8 - Analog Channel Status - 6					3812
	Slot 8 - Analog Channel Status - 7					3813
		0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rdt: Active 2 = ai: Open / th: Open / rtd: Open				
Slot 8 - Analog Output						
Slot 8 - Analog Output - Configuration						
Slot 8 - Analog Output - Configuration - Error Mode						
P5808	Slot 8 - Analog Output Error Mode - 1	0 to 255	0	rw, 8bit	0	5808
	Slot 8 - Analog Output Error Mode - 2					5809
	Slot 8 - Analog Output Error Mode - 3					5810
	Slot 8 - Analog Output Error Mode - 4					5811
	Slot 8 - Analog Output Error Mode - 5					5812
	Slot 8 - Analog Output Error Mode - 6					5813
	Slot 8 - Analog Output Error Mode - 7					5814
	Slot 8 - Analog Output Error Mode - 8					5815
Slot 8 - Analog Output - Configuration - Error Value						
P5816	Slot 8 - Analog Output Error Value - 1	-32768 to 32767	0	rw, s16bit	0	5816
	Slot 8 - Analog Output Error Value - 2					5817
	Slot 8 - Analog Output Error Value - 3					5818
	Slot 8 - Analog Output Error Value - 4					5819
	Slot 8 - Analog Output Error Value - 5					5820
	Slot 8 - Analog Output Error Value - 6					5821
	Slot 8 - Analog Output Error Value - 7					5822
	Slot 8 - Analog Output Error Value - 8					5823
Slot 8 - Analog Output - Configuration - Channel Gain						
P5832	Slot 8 - Analog Output Channel Gain - 1	0 to 65535	1000	rw, 16bit	0	5832
	Slot 8 - Analog Output Channel Gain - 2					5833
	Slot 8 - Analog Output Channel Gain - 3					5834

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 8 - Analog Output Channel Gain - 4 Slot 8 - Analog Output Channel Gain - 5 Slot 8 - Analog Output Channel Gain - 6 Slot 8 - Analog Output Channel Gain - 7 Slot 8 - Analog Output Channel Gain - 8					5835 5836 5837 5838 5839
Slot 8 - Analog Output - Configuration - Channel Offset						
P5840	Slot 8 - Analog Output Channel Offset - 1 Slot 8 - Analog Output Channel Offset - 2 Slot 8 - Analog Output Channel Offset - 3 Slot 8 - Analog Output Channel Offset - 4 Slot 8 - Analog Output Channel Offset - 5 Slot 8 - Analog Output Channel Offset - 6 Slot 8 - Analog Output Channel Offset - 7 Slot 8 - Analog Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	0	5840 5841 5842 5843 5844 5845 5846 5847
Slot 8 - Analog Output - 16-Bit Analog Output Value						
P5800	Slot 8 - 16-Bit Analog Output - 1 Slot 8 - 16-Bit Analog Output - 2 Slot 8 - 16-Bit Analog Output - 3 Slot 8 - 16-Bit Analog Output - 4 Slot 8 - 16-Bit Analog Output - 5 Slot 8 - 16-Bit Analog Output - 6 Slot 8 - 16-Bit Analog Output - 7 Slot 8 - 16-Bit Analog Output - 8	-32768 to 32767	0	rw, s16bit	0	5800 5801 5802 5803 5804 5805 5806 5807
Slot 8 - Analog input (SG)						
Slot 8 - Analog input (SG) - Configuration						
Slot 8 - Analog input (SG) - Configuration - Channel Enable						
P7818	Slot 8 - Enables Analog Channel - 1 Slot 8 - Enables Analog Channel - 2	0 = Inactive 1 = Active	1	rw, enum	0	7818 7819
Slot 8 - Analog input (SG) - Configuration - Channel Unit						
P7820	Slot 8 - Analog Channel Unit - 1 Slot 8 - Analog Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7820 7821
Slot 8 - Analog input (SG) - Configuration - Channel filter						
P7822	Slot 8 - Analog Channel Filter - 1 Slot 8 - Analog Channel Filter - 2	0 = No Filter	4	rw, enum	0	7822 7823

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values				
Slot 8 - Analog input (SG) - Configuration - Channel Gain						
P7824	Slot 8 - Analog Channel Gain - 1 Slot 8 - Analog Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	0	7824 7825
Slot 8 - Analog input (SG) - Configuration - Channel Offset						
P7826	Slot 8 - Analog Channel Offset - 1 Slot 8 - Analog Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	0	7826 7828
Slot 8 - Analog input (SG) - Configuration - Channel Full Scale						
P7830	Slot 8 - Analog Channel Full Scale - 1 Slot 8 - Analog Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	0	7830 7831
Slot 8 - Analog input (SG) - Configuration - Channel Sensitivity						
P7832	Slot 8 - Analog Channel Sensitivity - 1 Slot 8 - Analog Channel Sensitivity - 2	0 to 255	2	rw, 8bit	0	7832 7833
Slot 8 - Analog input (SG) - Configuration - Channel Sampling Rate						
P7834	Slot 8 - Analog Channel Sampling Rate - 1 Slot 8 - Analog Channel Sampling Rate - 2	0 = 1.68 SPS (596.12 ms) 1 = 3.35 SPS (298.06 ms) 2 = 6.71 SPS (149.03 ms) 3 = 13.42 SPS (74.52 ms) 4 = 26.83 SPS (36.27 ms) 5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms)	4	rw, enum	0	7834 7835
Slot 8 - Analog input (SG) - Configuration - Maximum Channel Variation						
P7836	Slot 8 - Maximum Analog Channel Variation - 1 Slot 8 - Maximum Analog Channel Variation - 2	0 to 4294967295	100000	rw, 32bit	0	7836 7838
Slot 8 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value						
P7840	Slot 8 - Analog Channel Discard Value - 1 Slot 8 - Analog Channel Discard Value - 2	0 = Maintain 1 = Discard	0	rw, enum	0	7840 7841
Slot 8 - Analog input (SG) - Configuration - Filter Time Constant						
P7842	Slot 8 - Analog Channel Filter - 1 Slot 8 - Analog Channel Filter - 2	0 to 65535	0	rw, 16bit	0	7842 7843
Slot 8 - Analog input (SG) - Configuration - Channel Variation Step						
P7844	Slot 8 - Analog Channel Variation Step - 1		0	rw, enum	0	7844

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
	Slot 8 - Analog Channel Variation Step - 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)				7845
Slot 8 - Analog input (SG) - Status						
Slot 8 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit						
P7800	Slot 8 - Weight (g, kg, t) 16 Bit - 1 Slot 8 - Weight (g, kg, t) 16 Bit - 2	-32768 to 32767	-	ro, s16bit	0	7800 7801
Slot 8 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit						
P7802	Slot 8 - Weight (g, kg, t) 32 Bit - 1 Slot 8 - Weight (g, kg, t) 32 Bit - 2	-2147483648 to 2147483647	-	ro, s32bit	0	7802 7804
Slot 8 - Analog input (SG) - Status - SG Analog Channel Status						
P7806	Slot 8 - Analog Channel Status - 1 Slot 8 - Analog Channel Status - 2	0 = Inactive 1 = Active	-	ro, enum	0	7806 7807
Slot 8 - Starter manager (SCW)						
Slot 8 - Starter manager (SCW) - Status						
Slot 8 - Starter manager (SCW) - Status - Product Information						
P1800	Slot 8 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18	-	ro, 32bit	0	1800

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24				
P9802	Slot8 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9802
Slot 8 - Starter manager (SCW) - Status - Starters						
P9810	Slot8 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9810
P9811	Slot8 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9811
P9812	Slot8 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9812
P9813	Slot8 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9813
P9814	Slot8 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9814
P9815	Slot8 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9815
P9816	Slot8 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9816
P9817	Slot8 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9817
P9818	Slot8 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9818
P9819	Slot8 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9819
P9820	Slot8 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9820
P9821	Slot8 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9821
P9822	Slot8 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9822
P9823	Slot8 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9823
P9824	Slot8 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9824
P9825	Slot8 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9825
P9830	Slot8 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9830
P9832	Slot8 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9832
P9834	Slot8 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9834
P9836	Slot8 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9836
P9838	Slot8 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9838
P9840	Slot8 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9840
P9842	Slot8 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9842
P9844	Slot8 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9844
P9860	Slot8 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9860
P9861	Slot8 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9861

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9862	Slot8 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9862
P9863	Slot8 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9863
P9864	Slot8 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9864
P9865	Slot8 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9865
P9866	Slot8 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9866
P9867	Slot8 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9867
Slot 8 - Starter manager (SCW) - Status - Errors and Alarms						
P9870	Slot8 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9870
P9871	Slot8 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9871

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
P9872	Slot8 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9872
P9873	Slot8 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9873
P9875	Slot8 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9875
P9876	Slot8 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9876
P9877	Slot8 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9877
P9878	Slot8 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9878
Slot 8 - Starter manager (SCW) - Configurations						
Slot 8 - Starter manager (SCW) - Configurations - Starters						
P9880	Slot8 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9880
P9881	Slot8 - P2 - Operation Mode	0 = Starter	0	rw, 8bit	0	9881

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		1 = Transparent				
P9882	Slot8 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9882
P9883	Slot8 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9883
P9885	Slot8 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9885
P9886	Slot8 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9886
P9887	Slot8 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9887
P9888	Slot8 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9888
P9803	Slot8 - Factory Reset	0 to 65535	0	rw, 16bit	0	9803
Slot 8 - Starter manager (SCW) - Configurations - Counters						
P9850	Slot8 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9850
P9851	Slot8 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9851
P9852	Slot8 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9852
P9853	Slot8 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9853
P9854	Slot8 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9854
P9855	Slot8 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9855
P9856	Slot8 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9856
P9857	Slot8 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9857
P9858	Slot8 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9858
Slot 8 - Starter manager (SCW) - Configurations - Commands						
P9890	Slot8 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9890
P9891	Slot8 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9891
P9892	Slot8 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9892
P1802	Slot 8 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02	0	rw, 32bit	0	1802

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address
		Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24				

Table 4.2: Description of the parameter data types

Data Type	Description
enum	Enumerated type (unsigned 8-bit) contains a list of values with function description for each item.
8bit	Unsigned 8-bit integer, ranges from 0 to 255.
s8bit	Signed 8-bit integer, ranges from -128 to 127.
16bit	Unsigned 16-bit integer, ranges from 0 to 65,535.
s16bit	Signed 16-bit integer, ranges from -32,768 to 32,767.
32bit	Unsigned 32-bit integer, ranges from 0 to 4,294,967,295.
s32bit	Signed 32-bit integer, ranges from -2,147,483,648 to 2,147,483,647.
16bit	Unsigned 16-bit integer, ranges from 0 to 65,535.
ip addr	Unsigned 32-bit integer representing the octets of the IP address.
mac addr	48-bit identifier displayed in XX:XX:XX:XX:XX:XX format.
date and time epoch	Displays the date and time value in Epoch format, which are the seconds counted from January 1, 1970 at 00:00:00.



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