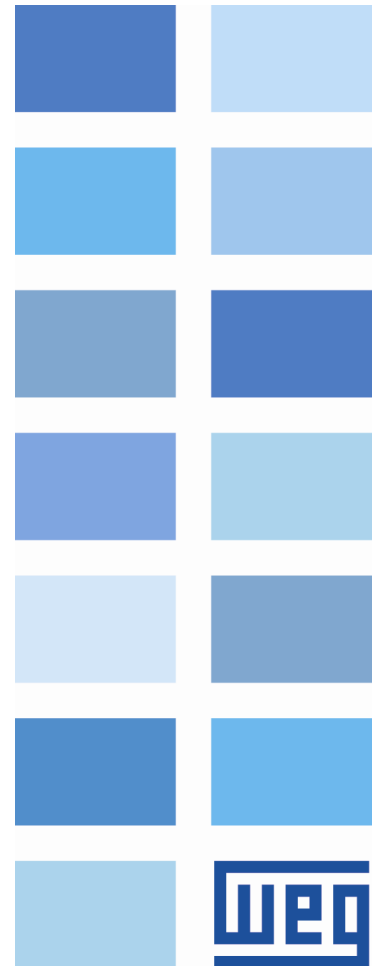


Remote Unit

RUW100

Programming Manual





Remote Unit Programming Manual

Series: RUW100

Language: English

Document:10008296632 / 00

Build 691

Publication Date: 05/2021

The information below describes the reviews made in this manual.

Version	Revision	Description
V1.0X	R00	First edition

CONTENTS

1	R UW100	5
1.1	STATUS	6
1.1.1	Ladder	6
1.1.2	Errors and Faults	6
1.1.3	CAN	8
1.1.4	RS485	10
1.1.5	Firmware Version/Revision/Model	11
1.1.6	Scan/Tick	12
1.1.7	Read Inputs (DIs)	13
1.2	CONFIGURATION	13
1.2.1	Flash	13
1.2.2	Communication	14
1.2.3	Digital Input/Output	16
1.2.4	Write Outputs (DOs)	16
1.2.5	Clear Errors	17
1.2.6	LED	17
1.3	USER	17
2	SLOT 1	18
2.1	DIGITAL INPUT/OUTPUT	18
2.1.1	Write Outputs (DOs)	18
2.1.2	Read Inputs (DIs)	18
2.1.3	Configuration	19
2.2	ANALOG INPUT (AI, TH, RTD)	19
2.2.1	Configuration	20
2.2.2	Status	22
2.3	ANALOG OUTPUT	23
2.3.1	Configuration	23
2.3.2	Analogue Output Value 16 Bits	24
2.4	ANALOG INPUT (SG)	24
2.4.1	Configuration	24
2.4.2	Status	27
	Appendix A QUICK REFERENCES	29

1 RUW100

Allows access to status and configuration parameters of the main module of RUW100 Remote Unit.

Parameters P000 to P999 refer to the RUW100 network head.

The parameters above P1000 refer to accessories and obey the following logic:

P-x-y-z-w

X-Accessory model as:

- 1-Digital Models;
- 3-Analog Inputs (AI, TH, RTD);
- 5-Analog Outputs;
- 7-Load cell input.

Y-Intrabus address of the accessory according to the position it is connected to:

- 1-Slot 1 (first accessory);
- 2-Slot 2 (second accessory);
- ...
- 8-Slot 8 (eighth accessory).



NOTE!

In this manual we will not present the detailed description of the parameters for all intrabus addresses (Slot1, Slot2 ... Slot8) since the description would be the same for any position. For example: if you want to know the description of the P1200, P1300, P1400, P1500, P1600, P1700 or P1800, just see the description of the P1100.



NOTE!

RUW100 parameters by default **are not retentive**. In order for a parameter or configuration to be kept after the remote is turned off, it is necessary to save the parameters in Flash memory through P204. This is generally not necessary as the configuration is mostly done by the network master.



NOTE!

The complete list of parameters can be seen in Appendix A.

1.1 STATUS

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

1.1.1 Ladder

P99: Ladder - Program status

Range: 0 ... 255

Default: 1

Description:

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	Ladder program invalid
4 = Installing	Installing ladder program

1.1.2 Errors and Faults

P100...P104: Last Fault

Range: 0 ... 255

Default: 0

Description:

Indicates the last 5 failures that occurred, as shown in the table below.

Indication	Description
0 = NO ERROR	No Error
1 = RS485 SERIAL WATCHDOG	Serial communication watchdog
2 = CAN WARNING	Check the canopen manual
3 = CAN ERROR PASSIVE	Check the canopen manual
4 = CAN BUS OFF	Check the canopen manual
5 = CAN NO BUS POWER	Check the canopen manual
6 = CAN INIT ERROR	Check the canopen manual
7 = CAN ERROR ENABLE	Check the canopen manual
8 = CANOPEN NODE GUARD ERROR	Check the canopen manual
9 = CANOPEN HEARTBEAT ERROR	Check the canopen manual
10 ... 13 = INTERNAL ERROR	Internal error
14 = RETENTIVE MEMORY	Retentive memory error
15 = FLASH MEMORY 50%	Number of writes in flash memory reached 50%
16 = FLASH MEMORY 100%	Number of writes in flash memory reached 100%
17 = NUMBER OF ACCESSORIES EXCEEDED	Number of accessories exceeded
18 = INTRABUS ADDRESSING ERROR	Intrabus addressing error
19 = INTRAUBS IDENTIFICATION ERROR	Intrabus identification error
20 = INTERNAL ERROR	Internal error
21 = IDENTIFICATION ERROR SLOT 1	SLOT1 identification error
22 = IDENTIFICATION ERROR SLOT 2	SLOT2 identification error
23 = IDENTIFICATION ERROR SLOT 3	SLOT3 identification error
24 = IDENTIFICATION ERROR SLOT 4	SLOT4 identification error
25 = IDENTIFICATION ERROR SLOT 5	SLOT5 identification error
26 = IDENTIFICATION ERROR SLOT 6	SLOT6 identification error
27 = IDENTIFICATION ERROR SLOT 7	SLOT7 identification error
28 = IDENTIFICATION ERROR SLOT 8	SLOT8 identification error
29 ... 30 = INTERNAL ERROR	Internal error
31 = INTRABUS TIMEOUT SLOT 1	Intrabus timeout error SLOT1
32 = INTRABUS TIMEOUT SLOT 2	Intrabus timeout error SLOT2
33 = INTRABUS TIMEOUT SLOT 3	Intrabus timeout error SLOT3
34 = INTRABUS TIMEOUT SLOT 4	Intrabus timeout error SLOT4
35 = INTRABUS TIMEOUT SLOT 5	Intrabus timeout error SLOT5
36 = INTRABUS TIMEOUT SLOT 6	Intrabus timeout error SLOT6
37 = INTRABUS TIMEOUT SLOT 7	Intrabus timeout error SLOT7
38 = INTRABUS TIMEOUT SLOT 8	Intrabus timeout error SLOT8
39 ... 40 = INTERNAL ERROR	Internal error
41 = INTRABUS CRC ERROR SLOT 1	Intrabus CRC error SLOT1
42 = INTRABUS CRC ERROR SLOT 2	Intrabus CRC error SLOT2
43 = INTRABUS CRC ERROR SLOT 3	Intrabus CRC error SLOT3
44 = INTRABUS CRC ERROR SLOT 4	Intrabus CRC error SLOT4
45 = INTRABUS CRC ERROR SLOT 5	Intrabus CRC error SLOT5
46 = INTRABUS CRC ERROR SLOT 6	Intrabus CRC error SLOT6
47 = INTRABUS CRC ERROR SLOT 7	Intrabus CRC error SLOT7
48 = INTRABUS CRC ERROR SLOT 8	Intrabus CRC error SLOT8
49 ... 50 = Reserved	Internal error
51 = INTRABUS COOMAND ERROR SLOT 1	Intrabus command error SLOT1
52 = INTRABUS COOMAND ERROR SLOT 2	Intrabus command error SLOT2
53 = INTRABUS COOMAND ERROR SLOT 3	Intrabus command error SLOT3
54 = INTRABUS COOMAND ERROR SLOT 4	Intrabus command error SLOT4
55 = INTRABUS COOMAND ERROR SLOT 5	Intrabus command error SLOT5
56 = INTRABUS COOMAND ERROR SLOT 6	Intrabus command error SLOT6
57 = INTRABUS COOMAND ERROR SLOT 7	Intrabus command error SLOT7
58 = INTRABUS COOMAND ERROR SLOT 8	Intrabus command error SLOT8
59 ... 70 = INTERNAL ERROR	Internal error

P105...P109: Last Alarm
Range: 0 ... 255

Default: 0

Description:

Indicates the last 5 alarms that occurred, as shown in the table below.

Indication	Description
0 = NO ERROR	No Error
1 = RS485 SERIAL WATCHDOG	Serial communication watchdog
2 = CAN WARNING	Check the canopen manual
3 = CAN ERROR PASSIVE	Check the canopen manual
4 = CAN BUS OFF	Check the canopen manual
5 = CAN NO BUS POWER	Check the canopen manual
6 = CAN INIT ERROR	Check the canopen manual
7 = CAN ERROR ENABLE	Check the canopen manual
8 = CANOPEN NODE GUARD ERROR	Check the canopen manual
9 = CANOPEN HEARTBEAT ERROR	Check the canopen manual
10 ... 13 = INTERNAL ERROR	Internal error
14 = RETENTIVE MEMORY	Retentive memory error
15 = FLASH MEMORY 50%	Number of writes in flash memory reached 50%
16 = FLASH MEMORY 100%	Number of writes in flash memory reached 100%
17 = NUMBER OF ACCESSORIES EXCEEDED	Number of accessories exceeded
18 = INTRABUS ADDRESSING ERROR	Intrabus addressing error
19 = INTRAUBS IDENTIFICATION ERROR	Intrabus identification error
20 = INTERNAL ERROR	Internal error
21 = IDENTIFICATION ERROR SLOT 1	SLOT1 identification error
22 = IDENTIFICATION ERROR SLOT 2	SLOT2 identification error
23 = IDENTIFICATION ERROR SLOT 3	SLOT3 identification error
24 = IDENTIFICATION ERROR SLOT 4	SLOT4 identification error
25 = IDENTIFICATION ERROR SLOT 5	SLOT5 identification error
26 = IDENTIFICATION ERROR SLOT 6	SLOT6 identification error
27 = IDENTIFICATION ERROR SLOT 7	SLOT7 identification error
28 = IDENTIFICATION ERROR SLOT 8	SLOT8 identification error
29 ... 30 = INTERNAL ERROR	Internal error
31 = INTRABUS TIMEOUT SLOT 1	Intrabus timeout error SLOT1
32 = INTRABUS TIMEOUT SLOT 2	Intrabus timeout error SLOT2
33 = INTRABUS TIMEOUT SLOT 3	Intrabus timeout error SLOT3
34 = INTRABUS TIMEOUT SLOT 4	Intrabus timeout error SLOT4
35 = INTRABUS TIMEOUT SLOT 5	Intrabus timeout error SLOT5
36 = INTRABUS TIMEOUT SLOT 6	Intrabus timeout error SLOT6
37 = INTRABUS TIMEOUT SLOT 7	Intrabus timeout error SLOT7
38 = INTRABUS TIMEOUT SLOT 8	Intrabus timeout error SLOT8
39 ... 40 = INTERNAL ERROR	Internal error
41 = INTRABUS CRC ERROR SLOT 1	Intrabus CRC error SLOT1
42 = INTRABUS CRC ERROR SLOT 2	Intrabus CRC error SLOT2
43 = INTRABUS CRC ERROR SLOT 3	Intrabus CRC error SLOT3
44 = INTRABUS CRC ERROR SLOT 4	Intrabus CRC error SLOT4
45 = INTRABUS CRC ERROR SLOT 5	Intrabus CRC error SLOT5
46 = INTRABUS CRC ERROR SLOT 6	Intrabus CRC error SLOT6
47 = INTRABUS CRC ERROR SLOT 7	Intrabus CRC error SLOT7
48 = INTRABUS CRC ERROR SLOT 8	Intrabus CRC error SLOT8
49 ... 50 = Reserved	Internal error
51 = INTRABUS COOMAND ERROR SLOT 1	Intrabus command error SLOT1
52 = INTRABUS COOMAND ERROR SLOT 2	Intrabus command error SLOT2
53 = INTRABUS COOMAND ERROR SLOT 3	Intrabus command error SLOT3
54 = INTRABUS COOMAND ERROR SLOT 4	Intrabus command error SLOT4
55 = INTRABUS COOMAND ERROR SLOT 5	Intrabus command error SLOT5
56 = INTRABUS COOMAND ERROR SLOT 6	Intrabus command error SLOT6
57 = INTRABUS COOMAND ERROR SLOT 7	Intrabus command error SLOT7
58 = INTRABUS COOMAND ERROR SLOT 8	Intrabus command error SLOT8
59 ... 70 = INTERNAL ERROR	Internal error

1.1.3 CAN

Parameter for status and monitoring of CAN interface an CANopen protocol.

P600: CAN - Address

Range: 1 ... 127 **Default:** 2

Description:

It allows viewing the address configured for CAN communication, programmed using switches 1 to 7 on DIP switch S2.

P601: CAN - Baudrate

Range: 0 ... 7 **Default:** 0

Description:

It allows viewing the value of the baud rate for the CAN interface, programmed using switches 8 to 10 in DIP switch S2, in bits per second.

Indication	Description
0 = 1 Mbit/s	CAN baud rate.
1 = 800 Kbit/s	CAN baud rate.
2 = 500 Kbit/s	CAN baud rate.
3 = 250 Kbit/s	CAN baud rate.
4 = 125 Kbit/s	CAN baud rate.
5 = 100 Kbit/s	CAN baud rate.
6 = 50 Kbit/s	CAN baud rate.
7 = 20 Kbit/s	CAN baud rate.

P605: CAN - Controller Status

Range: 0 ... 5 **Default:** 0

Description:

It allows identifying if the CAN interface is enabled and if the communication presents errors.

Indication	Description
0 = Disable	Inactive CAN interface.
1 = Auto-baud	-
2 = CAN Enabled	CAN interface is active and without errors.
3 = Warning	CAN controller has reached the warning state.
4 = Error Passive	CAN controller has reached the error passive state.
5 = Bus Off	CAN controller has reached the bus off state.

P606: CAN - RX CAN Telegrams

Range: 0 ... 65535 **Default:** 0

Description:

This parameter works as a cyclic counter that is incremented every time a CAN telegram is received. It informs the operator if the device is being able to communicate with the network.

P607: CAN - TX CAN Telegrams

Range: 0 ... 65535 **Default:** 0

Description:

This parameter works as a cyclic counter that is incremented every time a CAN telegram is transmitted. It informs the operator if the device is being able to communicate with the network.

P608: CAN - Bus Off counter

Range: 0 ... 65535 **Default:** 0

Description:

It is a cyclic counter that indicates the number of times the device entered the bus off state in the CAN network.

P609: CAN - Lost Telegrams
Range: 0 ... 65535 **Default:** 0

Description:

It is a cyclic counter that indicates the number of messages received by the CAN interface, but could not be processed by the device. In case that the number of lost messages is frequently incremented, it is recommended to reduce the baud rate used in the CAN network.

P610: CAN - CANopen Communication Status
Range: 0 ... 5 **Default:** 0

Description:

It indicates the device state regarding the CANopen network, informing if the protocol has been enabled and if the error control service is active (Node Guarding or Heartbeat).

Indication	Description
0 = Disabled	CANopen protocol disabled.
1 = Reserved	-
2 = Comm Enabled	Communication enabled.
3 = Error Ctrl. Enab.	Communication enabled and error control service enabled (Node Guarding/Heartbeat).
4 = Guarding Error	Node Guarding error occurred.
5 = Heartbeat Error	Heartbeat error occurred.

P611: CAN - CANopen Slave Status
Range: 0 ... 4 **Default:** 0

Description:

Each slave in the CANopen network has a state machine that controls its behavior regarding the communication. This parameter indicates in which state the device is.

Indication	Description
0 = Disabled	CANopen protocol disabled.
1 = Initialization	Communication with the device is not possible during this stage, which is concluded automatically.
2 = Stopped	Only the NMT object is available.
3 = Operational	All the communication objects are available.
4 = PreOperational	It is already possible to communicate with the slave but its PDOs are not yet available for operation.

1.1.4 RS485

Read parameters that display information about the RS485 interfaces for the product.

P620: RS485 - Current Address
Range: 1 ... 247 **Default:** 1

Description:

Indicates the current value of the address used for the RS485 interface.

Depending on the configuration of the parameter P0625, this programming can be done via DIPs or via parameters.

P621: RS485 - Current Baudrate
Range: 0 ... 4 **Default:** 1

Description:

Indicates the current value of the baud rate used for the RS485 interface.

Depending on the configuration of the parameter P0625, this programming can be done via DIPs or via parameters.

Indication	Description
0 = 9600 bit/s	Bit rate per second.
1 = 19200 bit/s	Bit rate per second.
2 = 38400 bit/s	Bit rate per second.
3 = 57600 bit/s	Bit rate per second.
4 = 76800 bit/s	Bit rate per second.

P622: RS485 - Current Bytes Configuration
Range: 0 ... 2

Default: 1

Description:

Indicates the current value of the byte configuration used for the RS485 interface.

Depending on the configuration of the parameter P0625, this programming can be done via DIPs or via parameters.

Indication	Description
0 = no parity, 2 stop bits	8 bits, without parity, 2 stop bit.
1 = even parity, 1 stop bit	8 bits, with even parity, 1 stop bit.
2 = odd parity, 1 stop bit	8 bits, with odd parity, 1 stop bit.


NOTE!

Even if it is programmed to use 2 stop bits, the product is tolerant for communication with other equipment that uses only 1 stop bit, and should be possible to use with a Modbus RTU master set to 1 stop bit.

1.1.5 Firmware Version/Revision/Model
P401: Model (RUW)
Range: 0 ... 255

Default: 255

Description:

Indicates the model of the main unit RUW100

Indication	Description
0 = RUW100.0 - 00DO/00DI	No digital input/output.
1 = RUW100.1 - 08DO/16DI	8 digital outputs and 16 digital inputs
2 = RUW100.2 - 10DO/14DI	10 digital outputs and 14 digital inputs

P402...P409: Models (SLOTS)
Range: 0 ... 255

Default: 255

Description:

Indicates the model of the expansion connected to each of the Slots, P402, P403 ... P409 the accessories of Slot1, Slot2 ... Slot8, respectively.

Indication	Description
5 = MOD03.00 - 8 AO	8 voltage or current analog output
6 = MOD03.10 - 8 AO	8 voltage analog output
7 = MOD07.00 - 6RE	6 relay output
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 = MOD02.00 - 7 AI	7 voltage or current analog input
129 = MOD04.00 - 7 TH	7 Type J, K or T thermocouple inputs
130 = MOD05.00 - 4 RTD	4 PT100 or PT1000 thermistor inputs
131 = MOD06.00 - 2 SG	2 load cell inputs
255 = Not Connected	Not connected

P500: Firmware Version (RUW)

Range: 0.0 ... 19.99 **Default:** 2.0

Description:

Firmware version of the main module RUW100

P501...P508: Firmware Version (SLOTS)

Range: 0.0 ... 19.99 **Default:** 1.0

Description:

Firmware version of connected accessories 1 to 8

P520: Firmware Revision (RUW)

Range: -32768 ... 32767 **Default:** 0

Description:

Firmware revision of the main module RUW100

P540: Bootloader Version

Range: 20.0 ... 60.0 **Default:** 20.0

Description:

Bootloader auxiliary firmware version

P560: Product Serial Number

Range: 0 ... 4294967295 **Default:** 0

Description:

Product serial number

P400: Number Slots

Range: 0 ... 255 **Default:** 0

Description:

Indicates the number of expansion cards connected (slots).

1.1.6 Scan/Tick

P700: Tick 100us

Range: 0 ... 4294967295 **Default:** 0

Description:

Internal counter that is incremented every 100us. Can be used as a time base in applications that need precision.

P702: Scan Cycle		
Range:	0.0 ... 6553.5	Default: 0.0

Description:

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

1.1.7 Read Inputs (DIs)

P900: RUW100 - Read Digital Inputs (DIs)		
Range:	0 ... 16 Bit	Default: 0

Description:

Allows the reading of digital inputs through a DWORD (32bit) in which DI01 is represented by the least bit significant. Ex: DI01, DI02, DI05 and DI10 at high level and the others at low level, we would have P0900 = 531 decimal or 000000000000000000000000000000001000010011 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 DI12
Bit 12 = DI13	Digital input DI13
Bit 13 = DI14	Digital input DI14
Bit 14 = DI15	Digital input DI15
Bit 15 = DI16	Digital input DI16

1.2 CONFIGURATION

Allows accessing to write variables of the main module of RUW100 Remote Unit.

1.2.1 Flash

It allows loading, saving and resetting parameters in Flash. It also allows to load the factory default.

P204: Load Parameters		
Range:	0 ... 255	Default: 0

Description:

Load parameters according to options in the table below. NOTE: if command 1 (saves parameters in the flash) is executed, during the next initializations of the RUW100 the parameters will be retrieved from the flash automatically. This allows an initial setup of the RUW100 be made and maintained when de-energizing. To undo this feature, just give a command 4 (loads default of manufactures).


NOTE!

The maximum number of writings allowed in Flash Memory is 100 thousand, therefore, do not use this parameter cyclically.

Indication	Description
0 = External Flash Memory	No action
1 = Save Parameters to Flash	Save parameters to flash
2 = Load Parameters From Flash	Load parameters from flash
3 = Reset RUW100	Reset RUW100
4 = Load Factory Default	Load factory defaults (parameters and ladder application)
5 = Reconfigure Expansions	Reconfigure expansions. Can be used when adding new modules.

1.2.2 Communication

It allows configuring the communication for RUW100 Remote Unit.

P625: RS485 - Configuration Source

Range: 0 ... 1 **Default:** 0

Description:

It allows to choose which should be the source for the address, baud rate and parity for the RS485 interface: parameter or key.

The product has setup keys for RS485 interface. However, these keys configure both RS485 and CAN interfaces, and they allow to program limited values for the address and byte configuration for the RS485 interface.

If it is necessary to have different setup for the CAN and RS485 interface, or if the desired configuration for the RS485 interface is not one of the options available through the keys, then it is possible to program the product to use the configuration parameters of the RS485 interface instead of the keys.

Indication	Description
0 = Switch	Slave address, baud rate and parity for the RS485 interface are configured via DIP switch S2.
1 = Parameter	Slave address, baud rate and parity for the RS485 interface are configured using the parameters P0627 and P0626. In this case, the DIP value S2 is disregarded for the RS485 interface.

P627: RS485 - Address via Parameter

Range: 0 ... 247 **Default:** 0

Description:

It allows programming the address used for the RS485 interface.

It is only valid if the product is configured to use the address programming source by parameters (P0625).

P626: RS485 - Baud/Bytes Config. via Param.

Range: 0 ... 15 **Default:** 0

Description:

It allows programming the baud rate, parity and stop bits for the RS485 interface, in bits per second. This configuration must be identical for all the devices connected to the network.

t is only valid if the product is configured to use the address programming source by parameters (P0625).

Indication	Description
0 = 9600 bit/s No parity, 2 stop bits	Baud rate, parity and stop bits configuration.
1 = 19200 bit/s No parity, 2 stop bits	Baud rate, parity and stop bits configuration.
2 = 38400 bit/s No parity, 2 stop bits	Baud rate, parity and stop bits configuration.
3 = 57600 bit/s No parity, 2 stop bits	Baud rate, parity and stop bits configuration.
4 = 76800 bit/s No parity, 2 stop bits	Baud rate, parity and stop bits configuration.
5 = 9600 bit/s Even parity, 1 stop bit	Baud rate, parity and stop bits configuration.
6 = 19200 bit/s Even parity, 1 stop bit	Baud rate, parity and stop bits configuration.
7 = 38400 bit/s Even parity, 1 stop bit	Baud rate, parity and stop bits configuration.
8 = 57600 bit/s Even parity, 1 stop bit	Baud rate, parity and stop bits configuration.
9 = 76800 bit/s Even parity, 1 stop bit	Baud rate, parity and stop bits configuration.
10 = 9600 bit/s Odd parity, 1 stop bit	Baud rate, parity and stop bits configuration.
11 = 19200 bit/s Odd parity, 1 stop bit	Baud rate, parity and stop bits configuration.
12 = 38400 bit/s Odd parity, 1 stop bit	Baud rate, parity and stop bits configuration.
13 = 57600 bit/s Odd parity, 1 stop bit	Baud rate, parity and stop bits configuration.
14 = 76800 bit/s Odd parity, 1 stop bit	Baud rate, parity and stop bits configuration.
15 = Reserved	Reserved.


NOTE!

Even if it is programmed to use 2 stop bits, the product is tolerant for communication with other equipment that uses only 1 stop bit, and should be possible to use with a Modbus RTU master set to 1 stop bit.

P623: RS485 - Watchdog time

Range: 0.0 ... 6553.5 s

Default: 0.0

Description:

Protection against fault in the RS485 communication.

In case the product does not receive valid telegrams for a period longer than the setting, a communication error will be indicated and the action programmed in P624 will be executed.

Time will start counting from the first valid telegram received.

P624: Action for Communication Fault

Range: 0 ... 1

Default: 1

Description:

It allows configuring the protection tripping mode for communication errors.

Indication	Description
0 = No Action	No tripping.
1 = According to Error Mode	Put the product outputs as programmed in the error mode of each output.

P602: CAN - Bus Off Reset

Range: 0 ... 1

Default: 0

Description:

It allows programming the inverter behavior when detecting a bus off error at the CAN interface.

Indication	Description
0 = Manual	If bus off occurs, LED will indicate this condition and the communication will be disabled. The action programmed in parameter P0624 - Action for Communication Fault will be performed. In order that the device communicates again through the CAN interface, it will be necessary to power cycle the device.
1 = Automatic	If bus off occurs, the communication will be reinitiated automatically and the error will be ignored. In this case it will not indicate this error at LEDs and the device will not perform any error action.

1.2.3 Digital Input/Output

P904: RUW100 - Error Mode Output

Range: 0 ... 4294967295 **Default:** 0

Description:

This parameter defines whether or not a digital output receives a pre-defined value in P0906 in the event of an internal error or when the RUW100 goes to STOP MODE. 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 P0906.

P906: RUW100 - Error Value

Range: 0 ... 4294967295 **Default:** 0

Description:

This parameter configure the value that the digital output should assume in case of internal error or when the RUW100 goes to STOP MODE. 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 P0904 for this.

1.2.4 Write Outputs (DOs)

P902: RUW100 - Write Digital Outputs (DOs)

Range: 0 ... 10 Bit **Default:** 0

Description:

Allows writing to the digital outputs of the main unit via a DWORD (32bit) in which the DO01 is represented by the least significant bit. Ex: To activate DO01, DO02, DO05 and DO10, just make P0902 = 531 decimal or 00000000000000000000000000000001000010011 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 DO09
Bit 9 = DO10	Digital output DO10

1.2.5 Clear Errors

P200: Clear Errors

Range: 0 ... 255

Default: 0

Description:

Clears the errors and alarms when it receives the value 1.

1.2.6 LED

P628: LED NET - Configuration

Range: 0 ... 1

Default: 0

Description:

It allows programming the address used for the RS485 interface.

t is only valid if the product is configured to use the address programming source by parameters (P0625).

Indication	Description
0 = CAN	Stop the Ladder program
1 = RS485	Ladder program running

1.3 USER

Allows accessing to user parameters

P800...P838: User Parameter

Range: -2147483648 ... 2147483647

Default: 0

Description:

User parameters. Can be accessed via network or ladder and used in the user's logic.

2 SLOT 1

2.1 DIGITAL INPUT/OUTPUT

2.1.1 Write Outputs (DOs)

P1102: Slot 1 - Write Digital Outputs (DOs)		
Range:	0 ... 24 Bit	Default: 0

Description:

Allows writing to the accessory's digital outputs via a DWORD (32bit) in which the DO01 is represented by the least significant bit. Ex: To activate DO01, DO02, DO05 and DO10, just make P1102 = 531 decimal or 0000000000000000000001000010011 binary.

Bit	Value/Description
Bit 0 = DO01	SLOT1: digital output DO01
Bit 1 = DO02	SLOT1: digital output DO02
Bit 2 = DO03	SLOT1: digital output DO03
Bit 3 = DO04	SLOT1: digital output DO04
Bit 4 = DO05	SLOT1: digital output DO05
Bit 5 = DO06	SLOT1: digital output DO06
Bit 6 = DO07	SLOT1: digital output DO07
Bit 7 = DO08	SLOT1: digital output DO08
Bit 8 = DO09	SLOT1: digital output DO09
Bit 9 = DO10	SLOT1: digital output DO10
Bit 10 = DO11	SLOT1: digital output DO11
Bit 11 = DO12	SLOT1: digital output DO12
Bit 12 = DO13	SLOT1: digital output DO13
Bit 13 = DO14	SLOT1: digital output DO14
Bit 14 = DO15	SLOT1: digital output DO15
Bit 15 = DO16	SLOT1: digital output DO17
Bit 16 = DO17	SLOT1: digital output DO17
Bit 17 = DO18	SLOT1: digital output DO18
Bit 18 = DO19	SLOT1: digital output DO19
Bit 19 = DO20	SLOT1: digital output DO20
Bit 20 = DO21	SLOT1: digital output DO21
Bit 21 = DO22	SLOT1: digital output DO22
Bit 22 = DO23	SLOT1: digital output DO23
Bit 23 = DO24	SLOT1: digital output DO24

2.1.2 Read Inputs (DIs)

P1100: Slot 1 - Read Digital Inputs (DIs)		
Range:	0 ... 24 Bit	Default: 0

Description:

Allows the reading of the accessory's 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, we would have P1100 = 531 decimal or 0000000000000000000001000010011 binary.

Bit	Value/Description
Bit 0 = DI01	SLOT1: digital input DO01
Bit 1 = DI02	SLOT1: digital input DO02
Bit 2 = DI03	SLOT1: digital input DO03
Bit 3 = DI04	SLOT1: digital input DO04
Bit 4 = DI05	SLOT1: digital input DO05
Bit 5 = DI06	SLOT1: digital input DO06
Bit 6 = DI07	SLOT1: digital input DO07
Bit 7 = DI08	SLOT1: digital input DO08
Bit 8 = DI09	SLOT1: digital input DO09
Bit 9 = DI10	SLOT1: digital input DO10
Bit 10 = DI11	SLOT1: digital input DO11
Bit 11 = DI12	SLOT1: digital input DO12
Bit 12 = DI13	SLOT1: digital input DO13
Bit 13 = DI14	SLOT1: digital input DO14
Bit 14 = DI15	SLOT1: digital input DO15
Bit 15 = DI16	SLOT1: digital input DO16
Bit 16 = DI17	SLOT1: digital input DO17
Bit 17 = DI18	SLOT1: digital input DO18
Bit 18 = DI19	SLOT1: digital input DO19
Bit 19 = DI20	SLOT1: digital input DO20
Bit 20 = DI21	SLOT1: digital input DO21
Bit 21 = DI22	SLOT1: digital input DO22
Bit 22 = DI23	SLOT1: digital input DO23
Bit 23 = DI24	SLOT1: digital input DO24

2.1.3 Configuration

It allows setup SLOT1

P1104: Slot 1 - Error Mode Output		
Range:	0 ... 4294967295	Default: 0

Description:

This parameter defines whether or not a digital output receives a pre-defined value in P1106 in the event of an internal error or when the RUW100 goes to STOP MODE. 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.

P1106: Slot 1 - Error Value		
Range:	0 ... 4294967295	Default: 0

Description:

In this parameter, the value that the digital output should assume in case of an internal error or when the RUW100 goes to STOP MODE. 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.

2.2 ANALOG INPUT (AI, TH, RTD)

Parameters that allow the configuration and reading of expansions of analog inputs such as voltage, current, thermocouple, thermistors and load cells.

2.2.1 Configuration

Channel Enable

P3135...P3141: Slot 1 - Analogue Input Channel Enable

Range: 0 ... 2

Default: 1

Description:

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 = Disable / Disable / Disable	MOD2-7AI= Disable channel MOD4-7TH= Disable channel MOD5-4RTD= Disable channel
1 = Enable / Enable With CJC / Enable	MOD2-7AI= Enable MOD4-7TH= Enable with CJC* MOD5-4RTD= Enable
2 = Reserv / Enable No CJC / Reserv	MOD2-7AI= Reserved MOD4-7TH= Enable without CJC* MOD5-4RTD= Reserved

Channel Type

Parameter to define the type of analog input:

- J, K or T for thermocouple module;
- PT100 or PT100 for thermistor (RTD);
- 0-10V, 0-20mA or 4-20mA for voltage or current input.

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

Range: 0 ... 2

Default: 0

Description:

Sets the type of analog input channel.
P3142, P3143 ... P3148 represent CH1, CH2 ... CH7.

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

Channel Unit

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

Range: 0 ... 2

Default: 0

Description:

The unit of the reading value 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

P3156...P3162: Slot 1 - Analogue Input Channel Decimal Digit

Range: 0 ... 3

Default: 1

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.

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

Channel Filter

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

P3163...P3169: Slot 1 - Analogue Input Channel Filter

Range: 0 ... 5

Default: 4

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

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

Channel Gain
P3170...P3176: Slot 1 - Analogue Input Channel Gain
Range: -32768 ... 32767 **Default:** 1000

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.

Channel Offset
P3178...P3184: Slot 1 - Analogue Input Channel Offset
Range: -32768 ... 32767 **Default:** 0

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.

2.2.2 Status

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

Analogue Input 16 Bits
P3100...P3106: Slot 1 - Read Analogue Input 16 bits
Range: -32768 ... 32767 **Default:** 0

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.

Analogue Channel Status
P3107...P3113: Slot 1 - Analogue Channel Status
Range: 0 ... 2 **Default:** 0

Description:

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: Disabled / th: Disabled / rtd: Disabled	MOD2-7AI - 0 = Disabled. MOD4-7TH - 0 = Disabled. MOD5-4RTD - 0 = Disabled.
1 = ai: Enabled / th: Enabled / rtd: Enabled	MOD2-7AI - 0 = Enabled. MOD4-7TH - 0 = Enabled. MOD5-4RTD - 0 = Enabled.
2 = ai: Open / th: Open / rtd: Open	MOD2-7AI - 0 = Open channel. MOD4-7TH - 0 = Open channel. MOD5-4RTD - 0 = Open channel.

2.3 ANALOG OUTPUT

Parameters to setup and writing to the analog output.

2.3.1 Configuration

Error Mode

P5108...P5115: Slot 1 - Analogue Output Error Mode		
Range:	0 ... 255	Default: 0

Description:

This parameter defines the action of the analog output in case of error or when the equipment receives a remote command STOP, as follows:

0- Maintains 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 - Analogue Output Error Value		
Range:	-32768 ... 32767	Default: 0

Description:

This parameter defines the value of the analog output in case of error or remote command STOP. NOTE: P5108 ... P5115 must be set to 1 to take effect.// P5116, P5117 ... P5123 represent CH1, CH2 ... CH8.

Channel Gain

P5132...P5139: Slot 1 - Analogue Output Channel Gain		
Range:	0 ... 65535	Default: 1000

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.

Channel Offset

P5140...P5147: Slot 1 - Analogue Output Channel Offset		
Range:	-32768 ... 32767	Default: 0

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.

2.3.2 Analogue Output Value 16 Bits

P5100...P5107: Slot 1 - Write Analogue Output 16-Bit		
Range:	-32768 ... 32767	Default: 0

Description:

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

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

2.4 ANALOG INPUT (SG)

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

2.4.1 Configuration

Channel Enable

P7118...P7119: Slot 1 - Analogue SG Channel Enable		
Range:	0 ... 1	Default: 1

Description:

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.

Indication	Description
0 = Disable	Disable the channel
1 = Enable	Enable the channel

Channel Unit

P7120...P7121: Slot 1 - Analogue SG Channel Unit		
Range:	0 ... 2	Default: 0

Description:

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

Indication	Description
0 = g	Gram
1 = kg	Kilogram
2 = t	Tonne

Channel Filter

P7122...P7123: Slot 1 - Analogue SG Channel Filter		
Range:	0 ... 5	Default: 4

Description:

Moving average filter of the last read values, as configured in P7122 for CH1 and P7123 for CH2.

This moving average filter stores the last X read values (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 mean is recalculated. 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.
1 = Average 2 Values	1 – Average of the last 4 values.
2 = Average 4 Values	1 – Average of the last 2 values.
3 = Average 8 Values	1 – Average of the last 8 values.
4 = Average 16 Values	1 – Average of the last 16 values.
5 = Average 32 Values	1 – Average of the last 32 values.

Channel Gain

P7124...P7125: Slot 1 - Analogue SG Channel Gain

Range: -32768 ... 32767

Default: 1000

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.

Channel Offset

P7126...P7128: Slot 1 - Analogue SG Channel Offset

Range: -2147483648 ... 2147483647

Default: 0

Description:

trl Offset value to be added to the processed value, which can be positive or negative. The offset is in the unit configured on the P7120 and according to the full scale.

P7126 for CH1 and P7128 for CH2.

setBoldFont Offset and gain adjustment: the input signal is added to the offset (in the user's unit: g, kg or t). The resulting amount is multiplied by the Gain.

To perform the initial adjustment, leave the module unloaded, correct the offset and transfer the configuration. Then, after verifying that the offset has been corrected (scale indicating zero), place a known weight, at least 70 % is recommended.

Channel Full Scale

P7130...P7131: Slot 1 - Analogue SG Channel Full Scale

Range: 0 ... 65535

Default: 10000

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.

Channel Sensibility

P7132...P7133: Slot 1 - Analogue SG Channel Sensibility

Range: 0 ... 255

Default: 2

Description:

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

Channel Sample Rate

P7134...P7135: Slot 1 - Analogue SG Channel Sample Rate		
Range:	0 ... 6	Default: 4

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.

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 298.06 ms)
2 = 6.71 SPS (149.03 ms)	6.71 samples per second (every 149.03 ms)
3 = 13.42 SPS (74.52 ms)	13.42 samples per second (every 74.52 ms)
4 = 26.83 SPS (36.27 ms)	26.83 samples per second (every 36.27 ms)
5 = 53.66 SPS (18.64 ms)	53.66 samples per second (every 18.64 ms)
6 = 107.32 SPS (9.32 ms)	107.32 samples per second (every 9.32 ms)

Channel Maximum Variation

P7136...P7138: Slot 1 - Analogue SG Channel Maximum Variation		
Range:	0 ... 4294967295	Default: 100000

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.

Channel Discart Value

P7140...P7141: Slot 1 - Analogue SG Channel Discart Value		
Range:	0 ... 1	Default: 0

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.

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

Channel TAU
P7142...P7143: Slot 1 - Analogue SG Channel Filter TAU
Range: 0 ... 65535 **Default:** 0

Description:

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

Channel Variation Step
P7144...P7145: Slot 1 - Analogue SG Channel Variation Step
Range: 0 ... 4 **Default:** 0

Description:

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

2.4.2 Status
Read Weight 16 Bits
P7100...P7101: Slot 1 - Read Weight 16 Bit
Range: -32768 ... 32767 **Default:** 0

Description:

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

Read Weight 32 Bits
P7102...P7104: Slot 1 - Read Weight 32 Bit
Range: -2147483648 ... 2147483647 **Default:** 0

Description:

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

SG Analogue Channel Status
P7106...P7107: Slot 1 - Analogue SG Channel Status
Range: 0 ... 1 **Default:** 0

Description:

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

Indication	Description
0 = Disable	Disable the channel
1 = Enable	Enable the channel

APPENDIX A QUICK REFERENCES

Table A.1: Parameters quick reference

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
RUW100.1 RUW100\Status					
RUW100.1.1 P0099	Ladder Ladder - Program status	0 = Stopped 1 = Running 2 = No program 3 = Invalid 4 = Installing	-	ro, enum	99
RUW100.1.2 P0100	Errors and Faults Last Fault - 1 Last Fault - 2 Last Fault - 3 Last Fault - 4 Last Fault - 5	0 = NO ERROR 1 = RS485 SERIAL WATCHDOG 2 = CAN WARNING 3 = CAN ERROR PASSIVE 4 = CAN BUS OFF 5 = CAN NO BUS POWER 6 = CAN INIT ERROR 7 = CAN ERROR ENABLE 8 = CANOPEN NODE GUARD ERROR 9 = CANOPEN HEARTBEAT ERROR 10 ... 13 = INTERNAL ERROR 14 = RETENTIVE MEMORY 15 = FLASH MEMORY 50% 16 = FLASH MEMORY 100% 17 = NUMBER OF ACCESSORIES EXCEEDED 18 = INTRABUS ADDRESSING ERROR 19 = INTRAUBS IDENTIFICATION ERROR 20 = INTERNAL ERROR 21 = IDENTIFICATION ERROR SLOT 1 22 = IDENTIFICATION ERROR SLOT 2 23 = IDENTIFICATION ERROR SLOT 3 24 = IDENTIFICATION ERROR SLOT 4 25 = IDENTIFICATION ERROR SLOT 5 26 = IDENTIFICATION ERROR SLOT 6 27 = IDENTIFICATION ERROR SLOT 7 28 = IDENTIFICATION ERROR SLOT 8 29 ... 30 = INTERNAL ERROR 31 = INTRABUS TIMEOUT SLOT 1 32 = INTRABUS TIMEOUT SLOT 2 33 = INTRABUS TIMEOUT SLOT 3 34 = INTRABUS TIMEOUT SLOT 4 35 = INTRABUS TIMEOUT SLOT 5 36 = INTRABUS TIMEOUT SLOT 6	-	ro, enum	100 101 102 103 104



Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		37 = INTRABUS TIMEOUT SLOT 7 38 = INTRABUS TIMEOUT SLOT 8 39 ... 40 = INTERNAL ERROR 41 = INTRABUS CRC ERROR SLOT 1 42 = INTRABUS CRC ERROR SLOT 2 43 = INTRABUS CRC ERROR SLOT 3 44 = INTRABUS CRC ERROR SLOT 4 45 = INTRABUS CRC ERROR SLOT 5 46 = INTRABUS CRC ERROR SLOT 6 47 = INTRABUS CRC ERROR SLOT 7 48 = INTRABUS CRC ERROR SLOT 8 49 ... 50 = Reserved 51 = INTRABUS COOMAND ERROR SLOT 1 52 = INTRABUS COOMAND ERROR SLOT 2 53 = INTRABUS COOMAND ERROR SLOT 3 54 = INTRABUS COOMAND ERROR SLOT 4 55 = INTRABUS COOMAND ERROR SLOT 5 56 = INTRABUS COOMAND ERROR SLOT 6 57 = INTRABUS COOMAND ERROR SLOT 7 58 = INTRABUS COOMAND ERROR SLOT 8 59 ... 70 = INTERNAL ERROR			
P0105	Last Alarm - 1 Last Alarm - 2 Last Alarm - 3 Last Alarm - 4 Last Alarm - 5	0 = NO ERROR 1 = RS485 SERIAL WATCHDOG 2 = CAN WARNING 3 = CAN ERROR PASSIVE 4 = CAN BUS OFF 5 = CAN NO BUS POWER 6 = CAN INIT ERROR 7 = CAN ERROR ENABLE 8 = CANOPEN NODE GUARD ERROR 9 = CANOPEN HEARTBEAT ERROR 10 ... 13 = INTERNAL ERROR 14 = RETENTIVE MEMORY 15 = FLASH MEMORY 50% 16 = FLASH MEMORY 100% 17 = NUMBER OF ACCESSORIES EXCEEDED 18 = INTRABUS ADDRESSING ERROR	-	ro, enum	105 106 107 108 109

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		19 = INTRABUS IDENTIFICATION ERROR 20 = INTERNAL ERROR 21 = IDENTIFICATION ERROR SLOT 1 22 = IDENTIFICATION ERROR SLOT 2 23 = IDENTIFICATION ERROR SLOT 3 24 = IDENTIFICATION ERROR SLOT 4 25 = IDENTIFICATION ERROR SLOT 5 26 = IDENTIFICATION ERROR SLOT 6 27 = IDENTIFICATION ERROR SLOT 7 28 = IDENTIFICATION ERROR SLOT 8 29 ... 30 = INTERNAL ERROR 31 = INTRABUS TIMEOUT SLOT 1 32 = INTRABUS TIMEOUT SLOT 2 33 = INTRABUS TIMEOUT SLOT 3 34 = INTRABUS TIMEOUT SLOT 4 35 = INTRABUS TIMEOUT SLOT 5 36 = INTRABUS TIMEOUT SLOT 6 37 = INTRABUS TIMEOUT SLOT 7 38 = INTRABUS TIMEOUT SLOT 8 39 ... 40 = INTERNAL ERROR 41 = INTRABUS CRC ERROR SLOT 1 42 = INTRABUS CRC ERROR SLOT 2 43 = INTRABUS CRC ERROR SLOT 3 44 = INTRABUS CRC ERROR SLOT 4 45 = INTRABUS CRC ERROR SLOT 5 46 = INTRABUS CRC ERROR SLOT 6 47 = INTRABUS CRC ERROR SLOT 7 48 = INTRABUS CRC ERROR SLOT 8 49 ... 50 = Reserved 51 = INTRABUS COOMAND ERROR SLOT 1 52 = INTRABUS COOMAND ERROR SLOT 2 53 = INTRABUS COOMAND ERROR SLOT 3 54 = INTRABUS COOMAND ERROR SLOT 4 55 = INTRABUS COOMAND ERROR SLOT 5 56 = INTRABUS COOMAND ERROR SLOT 6 57 = INTRABUS COOMAND ERROR SLOT 7 58 = INTRABUS COOMAND ERROR SLOT 8 59 ... 70 = INTERNAL ERROR			
RUW100.1.3	CAN				
P0600	CAN - Address	1 to 127	-	ro, 16bit	600
P0601	CAN - Baudrate	0 = 1 Mbit/s 1 = 800 Kbit/s	-	ro, enum	601

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		2 = 500 Kbit/s 3 = 250 Kbit/s 4 = 125 Kbit/s 5 = 100 Kbit/s 6 = 50 Kbit/s 7 = 20 Kbit/s			
P0605	CAN - Controller Status	0 = Disable 1 = Auto-baud 2 = CAN Enabled 3 = Warning 4 = Error Passive 5 = Bus Off	-	ro, enum	605
P0606	CAN - RX CAN Telegrams	0 to 65535	-	ro, 16bit	606
P0607	CAN - TX CAN Telegrams	0 to 65535	-	ro, 16bit	607
P0608	CAN - Bus Off counter	0 to 65535	-	ro, 16bit	608
P0609	CAN - Lost Telegrams	0 to 65535	-	ro, 16bit	609
P0610	CAN - CANopen Communication Status	0 = Disabled 1 = Reserved 2 = Comm Enabled 3 = Error Ctrl. Enab. 4 = Guarding Error 5 = Heartbeat Error	-	ro, enum	610
P0611	CAN - CANopen Slave Status	0 = Disabled 1 = Initialization 2 = Stopped 3 = Operational 4 = PreOperational	-	ro, enum	611
RUW100.1.4	RS485				
P0620	RS485 - Current Address	1 to 247	-	ro, 8bit	620
P0621	RS485 - Current Baudrate	0 = 9600 bit/s 1 = 19200 bit/s 2 = 38400 bit/s 3 = 57600 bit/s 4 = 76800 bit/s	-	ro, enum	621
P0622	RS485 - Current Bytes Configuration	0 = no parity, 2 stop bits 1 = even parity, 1 stop bit 2 = odd parity, 1 stop bit	-	ro, enum	622
RUW100.1.5	Firmware Version/Revision/Model				
P0401	Model (RUW)	0 = RUW100.0 - 00DO/00DI 1 = RUW100.1 - 08DO/16DI 2 = RUW100.2 - 10DO/14DI	-	ro, enum	401
P0402	Models (SLOTS) - 1 Models (SLOTS) - 2		-	ro, enum	402 403



Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Models (SLOTS) - 3 Models (SLOTS) - 4 Models (SLOTS) - 5 Models (SLOTS) - 6 Models (SLOTS) - 7 Models (SLOTS) - 8	5 = MOD03.00 - 8 AO 6 = MOD03.10 - 8 AO 7 = MOD07.00 - 6RE 16 = MOD1.00 - 24DI 17 = MOD1.10 - 24DO 18 = MOD1.30 - 08DO/16DI 19 = MOD1.20 - 16DO/08DI 128 = MOD02.00 - 7 AI 129 = MOD04.00 - 7 TH 130 = MOD05.00 - 4 RTD 131 = MOD06.00 - 2 SG 255 = Not Connected			404 405 406 407 408 409
P0500	Firmware Version (RUW)	0.0 to 19.99	-	ro, 16bit	500
P0501	Firmware Version (SLOTS) - 1 Firmware Version (SLOTS) - 2 Firmware Version (SLOTS) - 3 Firmware Version (SLOTS) - 4 Firmware Version (SLOTS) - 5 Firmware Version (SLOTS) - 6 Firmware Version (SLOTS) - 7 Firmware Version (SLOTS) - 8	0.0 to 19.99	-	ro, 16bit	501 502 503 504 505 506 507 508
P0520	Firmware Revision (RUW)	-32768 to 32767	-	ro, s16bit	520
P0540	Bootloader Version	20.0 to 60.0	-	ro, 16bit	540
P0560	Product Serial Number	0 to 4294967295	-	ro, 32bit	560
P0400	Number Slots	0 to 255	-	ro, 8bit	400
RUW100.1.6	Scan/Tick				
P0700	Tick 100us	0 to 4294967295	-	ro, 32bit	700
P0702	Scan Cycle	0.0 to 6553.5	-	ro, 16bit	702
RUW100.1.7	Read Inputs (DIs)				
P0900	RUW100 - Read 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	-	ro, 32bit	900

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16			
RUW100.2 RUW100\Configuration					
RUW100.2.1	Flash				
P0204	Load Parameters	0 = External Flash Memory 1 = Save Parameters to Flash 2 = Load Parameters From Flash 3 = Reset RUW100 4 = Load Factory Default 5 = Reconfigure Expansions	0	rw, enum	204
RUW100.2.2	Communication				
P0625	RS485 - Configuration Source	0 = Switch 1 = Parameter	0	rw, enum	625
P0627	RS485 - Address via Parameter	0 to 247	0	rw, 8bit	627
P0626	RS485 - Baud/Bytes Config. via Param.	0 = 9600 bit/s No parity, 2 stop bits 1 = 19200 bit/s No parity, 2 stop bits 2 = 38400 bit/s No parity, 2 stop bits 3 = 57600 bit/s No parity, 2 stop bits 4 = 76800 bit/s No parity, 2 stop bits 5 = 9600 bit/s Even parity, 1 stop bit 6 = 19200 bit/s Even parity, 1 stop bit 7 = 38400 bit/s Even parity, 1 stop bit 8 = 57600 bit/s Even parity, 1 stop bit 9 = 76800 bit/s Even parity, 1 stop bit 10 = 9600 bit/s Odd parity, 1 stop bit 11 = 19200 bit/s Odd parity, 1 stop bit 12 = 38400 bit/s Odd parity, 1 stop bit 13 = 57600 bit/s Odd parity, 1 stop bit 14 = 76800 bit/s Odd parity, 1 stop bit 15 = Reserved	0	rw, enum	626
P0623	RS485 - Watchdog time	0.0 to 6553.5 s	0.0 s	rw, 16bit	623
P0624	Action for Communication Fault	0 = No Action 1 = According to Error Mode	1	rw, enum	624
P0602	CAN - Bus Off Reset	0 = Manual 1 = Automatic	0	rw, enum	602
RUW100.2.3	Digital Input/Output				
P0904	RUW100 - Error Mode Output	0 to 4294967295	0	rw, 32bit	904
P0906	RUW100 - Error Value	0 to 4294967295	0	rw, 32bit	906
RUW100.2.4	Write Outputs (DOs)				
P0902	RUW100 - Write Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02	0	rw, 32bit	902

Parameter	Description	Range of values	Factory setting	Properties	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			
RUW100.2.5	Clear Errors				
P0200	Clear Errors	0 to 255	0	rw, 8bit	200
RUW100.2.6	LED				
P0628	LED NET - Configuration	0 = CAN 1 = RS485	0	rw, 8bit	628
RUW100.3 RUW100\User					
P0800	User Parameter - 1 User Parameter - 2 User Parameter - 3 User Parameter - 4 User Parameter - 5 User Parameter - 6 User Parameter - 7 User Parameter - 8 User Parameter - 9 User Parameter - 10 User Parameter - 11 User Parameter - 12 User Parameter - 13 User Parameter - 14 User Parameter - 15 User Parameter - 16 User Parameter - 17 User Parameter - 18 User Parameter - 19 User Parameter - 20	-2147483648 to 2147483647	0	rw, s32bit	800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838
SLOT1.1 Slot 1\Digital Input/Output					
SLOT1.1.1	Write Outputs (DOs)				
P1102	Slot 1 - Write 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	0	rw, 32bit	1102

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		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			
SLOT1.1.2	Read Inputs (DIs)				
P1100	Slot 1 - Read 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	1100
SLOT1.1.3	Configuration				
P1104	Slot 1 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1104
P1106	Slot 1 - Error Value	0 to 4294967295	0	rw, 32bit	1106
SLOT1.2 Slot 1\Analogue Input (AI, TH, RTD)					
SLOT1.2.1	Configuration				
SLOT1.2.1.1	Channel Enable				
P3135	Slot 1 - Analogue Input Channel Enable - 1 Slot 1 - Analogue Input Channel Enable - 2 Slot 1 - Analogue Input Channel Enable - 3 Slot 1 - Analogue Input Channel Enable - 4		1	rw, enum	3135 3136 3137 3138

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 1 - Analogue Input Channel Enable - 5 Slot 1 - Analogue Input Channel Enable - 6 Slot 1 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv			3139 3140 3141
SLOT1.2.1.2	Channel Type				
P3142	Slot 1 - Analogue Input Channel Type - 1 Slot 1 - Analogue Input Channel Type - 2 Slot 1 - Analogue Input Channel Type - 3 Slot 1 - Analogue Input Channel Type - 4 Slot 1 - Analogue Input Channel Type - 5 Slot 1 - Analogue Input Channel Type - 6 Slot 1 - Analogue Input Channel Type - 7	0 = Ai: 0-10V / TH: J / PT100 1 = Ai: 0-20mA / TH: K / PT1000 2 = Ai: 4-20mA / TH: T / Reserv	0	rw, enum	3142 3143 3144 3145 3146 3147 3148
SLOT1.2.1.3	Channel Unit				
P3149	Slot 1 - Analogue Input Channel Unit 1 - 1 Slot 1 - Analogue Input Channel Unit 1 - 2 Slot 1 - Analogue Input Channel Unit 1 - 3 Slot 1 - Analogue Input Channel Unit 1 - 4 Slot 1 - Analogue Input Channel Unit 1 - 5 Slot 1 - Analogue Input Channel Unit 1 - 6 Slot 1 - Analogue 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	3149 3150 3151 3152 3153 3154 3155
SLOT1.2.1.4	Channel Decimal Digit				
P3156	Slot 1 - Analogue Input Channel Decimal Digit - 1 Slot 1 - Analogue Input Channel Decimal Digit - 2 Slot 1 - Analogue Input Channel Decimal Digit - 3 Slot 1 - Analogue Input Channel Decimal Digit - 4 Slot 1 - Analogue Input Channel Decimal Digit - 5 Slot 1 - Analogue Input Channel Decimal Digit - 6 Slot 1 - Analogue Input Channel Decimal Digit - 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	3156 3157 3158 3159 3160 3161 3162
SLOT1.2.1.5	Channel Filter				
P3163	Slot 1 - Analogue Input Channel Filter - 1 Slot 1 - Analogue Input Channel Filter - 2 Slot 1 - Analogue Input Channel Filter - 3 Slot 1 - Analogue Input Channel Filter - 4 Slot 1 - Analogue Input Channel Filter - 5 Slot 1 - Analogue Input Channel Filter - 6 Slot 1 - Analogue Input Channel Filter - 7	0 = No Filter	4	rw, enum	3163 3164 3165 3166 3167 3168 3169

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values			
SLOT1.2.1.6 P3170	Channel Gain Slot 1 - Analogue Input Channel Gain - 1 Slot 1 - Analogue Input Channel Gain - 2 Slot 1 - Analogue Input Channel Gain - 3 Slot 1 - Analogue Input Channel Gain - 4 Slot 1 - Analogue Input Channel Gain - 5 Slot 1 - Analogue Input Channel Gain - 6 Slot 1 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3170 3171 3172 3173 3174 3175 3176
SLOT1.2.1.7 P3178	Channel Offset Slot 1 - Analogue Input Channel Offset - 1 Slot 1 - Analogue Input Channel Offset - 2 Slot 1 - Analogue Input Channel Offset - 3 Slot 1 - Analogue Input Channel Offset - 4 Slot 1 - Analogue Input Channel Offset - 5 Slot 1 - Analogue Input Channel Offset - 6 Slot 1 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3178 3179 3180 3181 3182 3183 3184
SLOT1.2.2	Status				
SLOT1.2.2.1 P3100	Analogue Input 16 Bits Slot 1 - Read Analogue Input 16 bits - 1 Slot 1 - Read Analogue Input 16 bits - 2 Slot 1 - Read Analogue Input 16 bits - 3 Slot 1 - Read Analogue Input 16 bits - 4 Slot 1 - Read Analogue Input 16 bits - 5 Slot 1 - Read Analogue Input 16 bits - 6 Slot 1 - Read Analogue Input 16 bits - 7	-32768 to 32767	-	ro, s16bit	3100 3101 3102 3103 3104 3105 3106
SLOT1.2.2.2 P3107	Analogue Channel Status Slot 1 - Analogue Channel Status - 1 Slot 1 - Analogue Channel Status - 2 Slot 1 - Analogue Channel Status - 3 Slot 1 - Analogue Channel Status - 4 Slot 1 - Analogue Channel Status - 5 Slot 1 - Analogue Channel Status - 6 Slot 1 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rtd: Enabled 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	3107 3108 3109 3110 3111 3112 3113
SLOT1.3 Slot 1\Analog Output					
SLOT1.3.1	Configuration				
SLOT1.3.1.1 P5108	Error Mode Slot 1 - Analogue Output Error Mode - 1 Slot 1 - Analogue Output Error Mode - 2 Slot 1 - Analogue Output Error Mode - 3	0 to 255	0	rw, 8bit	5108 5109 5110

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 1 - Analogue Output Error Mode - 4 Slot 1 - Analogue Output Error Mode - 5 Slot 1 - Analogue Output Error Mode - 6 Slot 1 - Analogue Output Error Mode - 7 Slot 1 - Analogue Output Error Mode - 8				5111 5112 5113 5114 5115
SLOT1.3.1.2 P5116	Error Value Slot 1 - Analogue Output Error Value - 1 Slot 1 - Analogue Output Error Value - 2 Slot 1 - Analogue Output Error Value - 3 Slot 1 - Analogue Output Error Value - 4 Slot 1 - Analogue Output Error Value - 5 Slot 1 - Analogue Output Error Value - 6 Slot 1 - Analogue Output Error Value - 7 Slot 1 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5116 5117 5118 5119 5120 5121 5122 5123
SLOT1.3.1.3 P5132	Channel Gain Slot 1 - Analogue Output Channel Gain - 1 Slot 1 - Analogue Output Channel Gain - 2 Slot 1 - Analogue Output Channel Gain - 3 Slot 1 - Analogue Output Channel Gain - 4 Slot 1 - Analogue Output Channel Gain - 5 Slot 1 - Analogue Output Channel Gain - 6 Slot 1 - Analogue Output Channel Gain - 7 Slot 1 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5132 5133 5134 5135 5136 5137 5138 5139
SLOT1.3.1.4 P5140	Channel Offset Slot 1 - Analogue Output Channel Offset - 1 Slot 1 - Analogue Output Channel Offset - 2 Slot 1 - Analogue Output Channel Offset - 3 Slot 1 - Analogue Output Channel Offset - 4 Slot 1 - Analogue Output Channel Offset - 5 Slot 1 - Analogue Output Channel Offset - 6 Slot 1 - Analogue Output Channel Offset - 7 Slot 1 - Analogue Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	5140 5141 5142 5143 5144 5145 5146 5147
SLOT1.3.2 P5100	Analogue Output Value 16 Bits Slot 1 - Write Analogue Output 16-Bit - 1 Slot 1 - Write Analogue Output 16-Bit - 2 Slot 1 - Write Analogue Output 16-Bit - 3 Slot 1 - Write Analogue Output 16-Bit - 4 Slot 1 - Write Analogue Output 16-Bit - 5 Slot 1 - Write Analogue Output 16-Bit - 6 Slot 1 - Write Analogue Output 16-Bit - 7 Slot 1 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5100 5101 5102 5103 5104 5105 5106 5107
SLOT1.4 Slot 1\Analogue Input (SG)					
SLOT1.4.1	Configuration				
SLOT1.4.1.1 P7118	Channel Enable Slot 1 - Analogue SG Channel Enable - 1 Slot 1 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7118 7119

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT1.4.1.2 P7120	Channel Unit Slot 1 - Analogue SG Channel Unit - 1 Slot 1 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7120 7121
SLOT1.4.1.3 P7122	Channel Filter Slot 1 - Analogue SG Channel Filter - 1 Slot 1 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7122 7123
SLOT1.4.1.4 P7124	Channel Gain Slot 1 - Analogue SG Channel Gain - 1 Slot 1 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7124 7125
SLOT1.4.1.5 P7126	Channel Offset Slot 1 - Analogue SG Channel Offset - 1 Slot 1 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7126 7128
SLOT1.4.1.6 P7130	Channel Full Scale Slot 1 - Analogue SG Channel Full Scale - 1 Slot 1 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7130 7131
SLOT1.4.1.7 P7132	Channel Sensibility Slot 1 - Analogue SG Channel Sensibility - 1 Slot 1 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7132 7133
SLOT1.4.1.8 P7134	Channel Sample Rate Slot 1 - Analogue SG Channel Sample Rate - 1 Slot 1 - Analogue SG Channel Sample 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	7134 7135
SLOT1.4.1.9 P7136	Channel Maximum Variation Slot 1 - Analogue SG Channel Maximum Variation - 1 Slot 1 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7136 7138
SLOT1.4.1.10 P7140	Channel Discart Value Slot 1 - Analogue SG Channel Discard Value - 1 Slot 1 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7140 7141
SLOT1.4.1.11 P7142	Channel TAU Slot 1 - Analogue SG Channel Filter TAU - 1	0 to 65535	0	rw, 16bit	7142

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 1 - Analogue SG Channel Filter TAU - 2				7143
SLOT1.4.1.12 P7144	Channel Variation Step Slot 1 - Analogue SG Channel Variation Step - 1 Slot 1 - Analogue SG 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	7144 7145
SLOT1.4.2	Status				
SLOT1.4.2.1 P7100	Read Weight 16 Bits Slot 1 - Read Weight 16 Bit - 1 Slot 1 - Read Weight 16 Bit - 2	-32768 to 32767	-	ro, s16bit	7100 7101
SLOT1.4.2.2 P7102	Read Weight 32 Bits Slot 1 - Read Weight 32 Bit - 1 Slot 1 - Read Weight 32 Bit - 2	-2147483648 to 2147483647	-	ro, s32bit	7102 7104
SLOT1.4.2.3 P7106	SG Analogue Channel Status Slot 1 - Analogue SG Channel Status - 1 Slot 1 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7106 7107
SLOT2.1 Slot 2\Digital Input/Output					
SLOT2.1.1 P1202	Write Outputs (DOs) Slot 2 - Write 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	1202

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT2.1.2 P1200	Read Inputs (DIs) Slot 2 - Read 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	1200
SLOT2.1.3	Configuration				
P1204	Slot 2 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1204
P1206	Slot 2 - Error Value	0 to 4294967295	0	rw, 32bit	1206
SLOT2.2 Slot 2\Analogue Input (AI, TH, RTD)					
SLOT2.2.1	Configuration				
SLOT2.2.1.1	Channel Enable				
P3235	Slot 2 - Analogue Input Channel Enable - 1 Slot 2 - Analogue Input Channel Enable - 2 Slot 2 - Analogue Input Channel Enable - 3 Slot 2 - Analogue Input Channel Enable - 4 Slot 2 - Analogue Input Channel Enable - 5 Slot 2 - Analogue Input Channel Enable - 6 Slot 2 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv	1	rw, enum	3235 3236 3237 3238 3239 3240 3241
SLOT2.2.1.2	Channel Type				
P3242	Slot 2 - Analogue Input Channel Type - 1 Slot 2 - Analogue Input Channel Type - 2 Slot 2 - Analogue Input Channel Type - 3 Slot 2 - Analogue Input Channel Type - 4 Slot 2 - Analogue Input Channel Type - 5 Slot 2 - Analogue Input Channel Type - 6		0	rw, enum	3242 3243 3244 3245 3246 3247

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 2 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100 1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv			3248
SLOT2.2.1.3	Channel Unit				
P3249	Slot 2 - Analogue Input Channel Unit 1 - 1 Slot 2 - Analogue Input Channel Unit 1 - 2 Slot 2 - Analogue Input Channel Unit 1 - 3 Slot 2 - Analogue Input Channel Unit 1 - 4 Slot 2 - Analogue Input Channel Unit 1 - 5 Slot 2 - Analogue Input Channel Unit 1 - 6 Slot 2 - Analogue 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	3249 3250 3251 3252 3253 3254 3255
SLOT2.2.1.4	Channel Decimal Digit				
P3256	Slot 2 - Analogue Input Channel Decimal Digit - 1 Slot 2 - Analogue Input Channel Decimal Digit - 2 Slot 2 - Analogue Input Channel Decimal Digit - 3 Slot 2 - Analogue Input Channel Decimal Digit - 4 Slot 2 - Analogue Input Channel Decimal Digit - 5 Slot 2 - Analogue Input Channel Decimal Digit - 6 Slot 2 - Analogue Input Channel Decimal Digit - 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	3256 3257 3258 3259 3260 3261 3262
SLOT2.2.1.5	Channel Filter				
P3263	Slot 2 - Analogue Input Channel Filter - 1 Slot 2 - Analogue Input Channel Filter - 2 Slot 2 - Analogue Input Channel Filter - 3 Slot 2 - Analogue Input Channel Filter - 4 Slot 2 - Analogue Input Channel Filter - 5 Slot 2 - Analogue Input Channel Filter - 6 Slot 2 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	3263 3264 3265 3266 3267 3268 3269
SLOT2.2.1.6	Channel Gain				
P3270	Slot 2 - Analogue Input Channel Gain - 1 Slot 2 - Analogue Input Channel Gain - 2 Slot 2 - Analogue Input Channel Gain - 3 Slot 2 - Analogue Input Channel Gain - 4 Slot 2 - Analogue Input Channel Gain - 5 Slot 2 - Analogue Input Channel Gain - 6 Slot 2 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3270 3271 3272 3273 3274 3275 3276

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT2.2.1.7	Channel Offset				
P3278	Slot 2 - Analogue Input Channel Offset - 1 Slot 2 - Analogue Input Channel Offset - 2 Slot 2 - Analogue Input Channel Offset - 3 Slot 2 - Analogue Input Channel Offset - 4 Slot 2 - Analogue Input Channel Offset - 5 Slot 2 - Analogue Input Channel Offset - 6 Slot 2 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3278 3279 3280 3281 3282 3283 3284
SLOT2.2.2	Status				
SLOT2.2.2.1	Analogue Input 16 Bits				
P3200	Slot 2 - Read Analogue Input 16 bits - 1 Slot 2 - Read Analogue Input 16 bits - 2 Slot 2 - Read Analogue Input 16 bits - 3 Slot 2 - Read Analogue Input 16 bits - 4 Slot 2 - Read Analogue Input 16 bits - 5 Slot 2 - Read Analogue Input 16 bits - 6 Slot 2 - Read Analogue Input 16 bits - 7	-32768 to 32767	-	ro, s16bit	3200 3201 3202 3203 3204 3205 3206
SLOT2.2.2.2	Analogue Channel Status				
P3207	Slot 2 - Analogue Channel Status - 1 Slot 2 - Analogue Channel Status - 2 Slot 2 - Analogue Channel Status - 3 Slot 2 - Analogue Channel Status - 4 Slot 2 - Analogue Channel Status - 5 Slot 2 - Analogue Channel Status - 6 Slot 2 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rtd: Enabled 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	3207 3208 3209 3210 3211 3212 3213
SLOT2.3 Slot 2\Analog Output					
SLOT2.3.1	Configuration				
SLOT2.3.1.1	Error Mode				
P5208	Slot 2 - Analogue Output Error Mode - 1 Slot 2 - Analogue Output Error Mode - 2 Slot 2 - Analogue Output Error Mode - 3 Slot 2 - Analogue Output Error Mode - 4 Slot 2 - Analogue Output Error Mode - 5 Slot 2 - Analogue Output Error Mode - 6 Slot 2 - Analogue Output Error Mode - 7 Slot 2 - Analogue Output Error Mode - 8	0 to 255	0	rw, 8bit	5208 5209 5210 5211 5212 5213 5214 5215
SLOT2.3.1.2	Error Value				
P5216	Slot 2 - Analogue Output Error Value - 1 Slot 2 - Analogue Output Error Value - 2 Slot 2 - Analogue Output Error Value - 3 Slot 2 - Analogue Output Error Value - 4 Slot 2 - Analogue Output Error Value - 5 Slot 2 - Analogue Output Error Value - 6 Slot 2 - Analogue Output Error Value - 7	-32768 to 32767	0	rw, s16bit	5216 5217 5218 5219 5220 5221 5222

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 2 - Analogue Output Error Value - 8				5223
SLOT2.3.1.3 P5232	Channel Gain Slot 2 - Analogue Output Channel Gain - 1 Slot 2 - Analogue Output Channel Gain - 2 Slot 2 - Analogue Output Channel Gain - 3 Slot 2 - Analogue Output Channel Gain - 4 Slot 2 - Analogue Output Channel Gain - 5 Slot 2 - Analogue Output Channel Gain - 6 Slot 2 - Analogue Output Channel Gain - 7 Slot 2 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5232 5233 5234 5235 5236 5237 5238 5239
SLOT2.3.1.4 P5240	Channel Offset Slot 2 - Analogue Output Channel Offset - 1 Slot 2 - Analogue Output Channel Offset - 2 Slot 2 - Analogue Output Channel Offset - 3 Slot 2 - Analogue Output Channel Offset - 4 Slot 2 - Analogue Output Channel Offset - 5 Slot 2 - Analogue Output Channel Offset - 6 Slot 2 - Analogue Output Channel Offset - 7 Slot 2 - Analogue Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	5240 5241 5242 5243 5244 5245 5246 5247
SLOT2.3.2 P5200	Analogue Output Value 16 Bits Slot 2 - Write Analogue Output 16-Bit - 1 Slot 2 - Write Analogue Output 16-Bit - 2 Slot 2 - Write Analogue Output 16-Bit - 3 Slot 2 - Write Analogue Output 16-Bit - 4 Slot 2 - Write Analogue Output 16-Bit - 5 Slot 2 - Write Analogue Output 16-Bit - 6 Slot 2 - Write Analogue Output 16-Bit - 7 Slot 2 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5200 5201 5202 5203 5204 5205 5206 5207
SLOT2.4 Slot 2 Analog Input (SG)					
SLOT2.4.1	Configuration				
SLOT2.4.1.1 P7218	Channel Enable Slot 2 - Analogue SG Channel Enable - 1 Slot 2 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7218 7219
SLOT2.4.1.2 P7220	Channel Unit Slot 2 - Analogue SG Channel Unit - 1 Slot 2 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7220 7221
SLOT2.4.1.3 P7222	Channel Filter Slot 2 - Analogue SG Channel Filter - 1 Slot 2 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values	4	rw, enum	7222 7223

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		4 = Average 16 Values 5 = Average 32 Values			
SLOT2.4.1.4 P7224	Channel Gain Slot 2 - Analogue SG Channel Gain - 1 Slot 2 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7224 7225
SLOT2.4.1.5 P7226	Channel Offset Slot 2 - Analogue SG Channel Offset - 1 Slot 2 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7226 7228
SLOT2.4.1.6 P7230	Channel Full Scale Slot 2 - Analogue SG Channel Full Scale - 1 Slot 2 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7230 7231
SLOT2.4.1.7 P7232	Channel Sensibility Slot 2 - Analogue SG Channel Sensibility - 1 Slot 2 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7232 7233
SLOT2.4.1.8 P7234	Channel Sample Rate Slot 2 - Analogue SG Channel Sample Rate - 1 Slot 2 - Analogue SG Channel Sample 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	7234 7235
SLOT2.4.1.9 P7236	Channel Maximum Variation Slot 2 - Analogue SG Channel Maximum Variation - 1 Slot 2 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7236 7238
SLOT2.4.1.10 P7240	Channel Discart Value Slot 2 - Analogue SG Channel Discard Value - 1 Slot 2 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7240 7241
SLOT2.4.1.11 P7242	Channel TAU Slot 2 - Analogue SG Channel Filter TAU - 1 Slot 2 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7242 7243
SLOT2.4.1.12 P7244	Channel Variation Step Slot 2 - Analogue SG Channel Variation Step - 1 Slot 2 - Analogue SG 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	7244 7245
SLOT2.4.2	Status				
SLOT2.4.2.1 P7200	Read Weight 16 Bits Slot 2 - Read Weight 16 Bits - 1	-32768 to 32767	-	ro, s16bit	7200

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 2 - Read Weight 16 Bits - 2				7201
SLOT2.4.2.2	Read Weight 32 Bits				
P7202	Slot 2 - Read Weight 32 Bits - 1 Slot 2 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7202 7204
SLOT2.4.2.3	SG Analogue Channel Status				
P7206	Slot 2 - Analogue SG Channel Status - 1 Slot 2 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7206 7207
SLOT3.1 Slot 3\Digital Input/Output					
SLOT3.1.1	Write Outputs (DOs)				
P1302	Slot 3 - Write 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	1302
SLOT3.1.2	Read Inputs (DIs)				
P1300	Slot 3 - Read 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	1300

Parameter	Description	Range of values	Factory setting	Properties	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			
SLOT3.1.3	Configuration				
P1304	Slot 3 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1304
P1306	Slot 3 - Error Value	0 to 4294967295	0	rw, 32bit	1306
SLOT3.2 Slot 3\Analog Input (AI, TH, RTD)					
SLOT3.2.1	Configuration				
SLOT3.2.1.1	Channel Enable				
P3335	Slot 3 - Analogue Input Channel Enable - 1 Slot 3 - Analogue Input Channel Enable - 2 Slot 3 - Analogue Input Channel Enable - 3 Slot 3 - Analogue Input Channel Enable - 4 Slot 3 - Analogue Input Channel Enable - 5 Slot 3 - Analogue Input Channel Enable - 6 Slot 3 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv	1	rw, enum	3335 3336 3337 3338 3339 3340 3341
SLOT3.2.1.2	Channel Type				
P3342	Slot 3 - Analogue Input Channel Type - 1 Slot 3 - Analogue Input Channel Type - 2 Slot 3 - Analogue Input Channel Type - 3 Slot 3 - Analogue Input Channel Type - 4 Slot 3 - Analogue Input Channel Type - 5 Slot 3 - Analogue Input Channel Type - 6 Slot 3 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100 1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv	0	rw, enum	3342 3343 3344 3345 3346 3347 3348
SLOT3.2.1.3	Channel Unit				
P3349	Slot 3 - Analogue Input Channel Unit 1 - 1 Slot 3 - Analogue Input Channel Unit 1 - 2 Slot 3 - Analogue Input Channel Unit 1 - 3 Slot 3 - Analogue Input Channel Unit 1 - 4 Slot 3 - Analogue Input Channel Unit 1 - 5 Slot 3 - Analogue Input Channel Unit 1 - 6 Slot 3 - Analogue Input Channel Unit 1 - 7	0 = ai: Not Used / th: °C / rtd: °C	0	rw, enum	3349 3350 3351 3352 3353 3354 3355

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		1 = ai: Not Used / th: °F / rtd: °F 2 = ai: Not Used / th: K / rtd: K			
SLOT3.2.1.4	Channel Decimal Digit				
P3356	Slot 3 - Analogue Input Channel Decimal Digit - 1 Slot 3 - Analogue Input Channel Decimal Digit - 2 Slot 3 - Analogue Input Channel Decimal Digit - 3 Slot 3 - Analogue Input Channel Decimal Digit - 4 Slot 3 - Analogue Input Channel Decimal Digit - 5 Slot 3 - Analogue Input Channel Decimal Digit - 6 Slot 3 - Analogue Input Channel Decimal Digit - 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	3356 3357 3358 3359 3360 3361 3362
SLOT3.2.1.5	Channel Filter				
P3363	Slot 3 - Analogue Input Channel Filter - 1 Slot 3 - Analogue Input Channel Filter - 2 Slot 3 - Analogue Input Channel Filter - 3 Slot 3 - Analogue Input Channel Filter - 4 Slot 3 - Analogue Input Channel Filter - 5 Slot 3 - Analogue Input Channel Filter - 6 Slot 3 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	3363 3364 3365 3366 3367 3368 3369
SLOT3.2.1.6	Channel Gain				
P3370	Slot 3 - Analogue Input Channel Gain - 1 Slot 3 - Analogue Input Channel Gain - 2 Slot 3 - Analogue Input Channel Gain - 3 Slot 3 - Analogue Input Channel Gain - 4 Slot 3 - Analogue Input Channel Gain - 5 Slot 3 - Analogue Input Channel Gain - 6 Slot 3 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3370 3371 3372 3373 3374 3375 3376
SLOT3.2.1.7	Channel Offset				
P3378	Slot 3 - Analogue Input Channel Offset - 1 Slot 3 - Analogue Input Channel Offset - 2 Slot 3 - Analogue Input Channel Offset - 3 Slot 3 - Analogue Input Channel Offset - 4 Slot 3 - Analogue Input Channel Offset - 5 Slot 3 - Analogue Input Channel Offset - 6 Slot 3 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3378 3379 3380 3381 3382 3383 3384
SLOT3.2.2	Status				
SLOT3.2.2.1	Analogue Input 16 Bits				
P3300	Slot 3 - Read Analogue Input 16 Bits - 1 Slot 3 - Read Analogue Input 16 Bits - 2 Slot 3 - Read Analogue Input 16 Bits - 3	-32768 to 32767	-	ro, s16bit	3300 3301 3302

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 3 - Read Analogue Input 16 Bits - 4 Slot 3 - Read Analogue Input 16 Bits - 5 Slot 3 - Read Analogue Input 16 Bits - 6 Slot 3 - Read Analogue Input 16 Bits - 7				3303 3304 3305 3306
SLOT3.2.2.2	Analogue Channel Status				
P3307	Slot 3 - Analogue Channel Status - 1 Slot 3 - Analogue Channel Status - 2 Slot 3 - Analogue Channel Status - 3 Slot 3 - Analogue Channel Status - 4 Slot 3 - Analogue Channel Status - 5 Slot 3 - Analogue Channel Status - 6 Slot 3 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rdt: Enabled 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	3307 3308 3309 3310 3311 3312 3313
SLOT3.3 Slot 3 Analog Output					
SLOT3.3.1	Configuration				
SLOT3.3.1.1	Error Mode				
P5308	Slot 3 - Analogue Output Error Mode - 1 Slot 3 - Analogue Output Error Mode - 2 Slot 3 - Analogue Output Error Mode - 3 Slot 3 - Analogue Output Error Mode - 4 Slot 3 - Analogue Output Error Mode - 5 Slot 3 - Analogue Output Error Mode - 6 Slot 3 - Analogue Output Error Mode - 7 Slot 3 - Analogue Output Error Mode - 8	0 to 255	0	rw, 8bit	5308 5309 5310 5311 5312 5313 5314 5315
SLOT3.3.1.2	Error Value				
P5316	Slot 3 - Analogue Output Error Value - 1 Slot 3 - Analogue Output Error Value - 2 Slot 3 - Analogue Output Error Value - 3 Slot 3 - Analogue Output Error Value - 4 Slot 3 - Analogue Output Error Value - 5 Slot 3 - Analogue Output Error Value - 6 Slot 3 - Analogue Output Error Value - 7 Slot 3 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5316 5317 5318 5319 5320 5321 5322 5323
SLOT3.3.1.3	Channel Gain				
P5332	Slot 3 - Analogue Output Channel Gain - 1 Slot 3 - Analogue Output Channel Gain - 2 Slot 3 - Analogue Output Channel Gain - 3 Slot 3 - Analogue Output Channel Gain - 4 Slot 3 - Analogue Output Channel Gain - 5 Slot 3 - Analogue Output Channel Gain - 6 Slot 3 - Analogue Output Channel Gain - 7 Slot 3 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5332 5333 5334 5335 5336 5337 5338 5339
SLOT3.3.1.4	Channel Offset				
P5340	Slot 3 - Analogue Output Channel Offset - 1 Slot 3 - Analogue Output Channel Offset - 2	-32768 to 32767	0	rw, s16bit	5340 5341

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 3 - Analogue Output Channel Offset - 3 Slot 3 - Analogue Output Channel Offset - 4 Slot 3 - Analogue Output Channel Offset - 5 Slot 3 - Analogue Output Channel Offset - 6 Slot 3 - Analogue Output Channel Offset - 7 Slot 3 - Analogue Output Channel Offset - 8				5342 5343 5344 5345 5346 5347
SLOT3.3.2	Analogue Output Value 16 Bits				
P5300	Slot 3 - Write Analogue Output 16-Bit - 1 Slot 3 - Write Analogue Output 16-Bit - 2 Slot 3 - Write Analogue Output 16-Bit - 3 Slot 3 - Write Analogue Output 16-Bit - 4 Slot 3 - Write Analogue Output 16-Bit - 5 Slot 3 - Write Analogue Output 16-Bit - 6 Slot 3 - Write Analogue Output 16-Bit - 7 Slot 3 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5300 5301 5302 5303 5304 5305 5306 5307
SLOT3.4 Slot 3 Analogue Input (SG)					
SLOT3.4.1	Configuration				
SLOT3.4.1.1	Channel Enable				
P7318	Slot 3 - Analogue SG Channel Enable - 1 Slot 3 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	255	rw, enum	7318 7319
SLOT3.4.1.2	Channel Unit				
P7320	Slot 3 - Analogue SG Channel Unit - 1 Slot 3 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7320 7321
SLOT3.4.1.3	Channel Filter				
P7322	Slot 3 - Analogue SG Channel Filter - 1 Slot 3 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7322 7323
SLOT3.4.1.4	Channel Gain				
P7324	Slot 3 - Analogue SG Channel Gain - 1 Slot 3 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7324 7325
SLOT3.4.1.5	Channel Offset				
P7326	Slot 3 - Analogue SG Channel Offset - 1 Slot 3 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7326 7328
SLOT3.4.1.6	Channel Full Scale				
P7330	Slot 3 - Analogue SG Channel Full Scale - 1 Slot 3 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7330 7331
SLOT3.4.1.7	Channel Sensibility				

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
P7332	Slot 3 - Analogue SG Channel Sensibility - 1 Slot 3 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7332 7333
SLOT3.4.1.8	Channel Sample Rate				
P7334	Slot 3 - Analogue SG Channel Sample Rate - 1 Slot 3 - Analogue SG Channel Sample 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	7334 7335
SLOT3.4.1.9	Channel Maximum Variation				
P7336	Slot 3 - Analogue SG Channel Maximum Variation - 1 Slot 3 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7336 7338
SLOT3.4.1.10	Channel Discart Value				
P7340	Slot 3 - Analogue SG Channel Discard Value - 1 Slot 3 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7340 7341
SLOT3.4.1.11	Channel TAU				
P7342	Slot 3 - Analogue SG Channel Filter TAU - 1 Slot 3 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7342 7343
SLOT3.4.1.12	Channel Variation Step				
P7344	Slot 3 - Analogue SG Channel Variation Step - 1 Slot 3 - Analogue SG 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	7344 7345
SLOT3.4.2	Status				
SLOT3.4.2.1	Read Weight 16 Bits				
P7300	Slot 3 - Read Weight 16 Bits - 1 Slot 3 - Read Weight 16 Bits - 2	-32768 to 32767	-	ro, s16bit	7300 7301
SLOT3.4.2.2	Read Weight 32 Bits				
P7302	Slot 3 - Read Weight 32 Bits - 1 Slot 3 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7302 7304
SLOT3.4.2.3	SG Analogue Channel Status				
P7306	Slot 3 - Analogue SG Channel Status - 1 Slot 3 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7306 7307
SLOT4.1 Slot 4\Digital Input/Output					
SLOT4.1.1	Write Outputs (DOs)				
P1402	Slot 4 - Write Digital Outputs (DOs)		0	rw, 32bit	1402

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		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			
SLOT4.1.2	Read Inputs (DIs)				
P1400	Slot 4 - Read 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	1400

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT4.1.3	Configuration				
P1404	Slot 4 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1404
P1406	Slot 4 - Error Value	0 to 4294967295	0	rw, 32bit	1406
SLOT4.2 Slot 4\Analog Input (AI, TH, RTD)					
SLOT4.2.1	Configuration				
SLOT4.2.1.1	Channel Enable				
P3435	Slot 4 - Analogue Input Channel Enable - 1 Slot 4 - Analogue Input Channel Enable - 2 Slot 4 - Analogue Input Channel Enable - 3 Slot 4 - Analogue Input Channel Enable - 4 Slot 4 - Analogue Input Channel Enable - 5 Slot 4 - Analogue Input Channel Enable - 6 Slot 4 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv	1	rw, enum	3435 3436 3437 3438 3439 3440 3441
SLOT4.2.1.2	Channel Type				
P3442	Slot 4 - Analogue Input Channel Type - 1 Slot 4 - Analogue Input Channel Type - 2 Slot 4 - Analogue Input Channel Type - 3 Slot 4 - Analogue Input Channel Type - 4 Slot 4 - Analogue Input Channel Type - 5 Slot 4 - Analogue Input Channel Type - 6 Slot 4 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100 1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv	0	rw, enum	3442 3443 3444 3445 3446 3447 3448
SLOT4.2.1.3	Channel Unit				
P3449	Slot 4 - Analogue Input Channel Unit 1 - 1 Slot 4 - Analogue Input Channel Unit 1 - 2 Slot 4 - Analogue Input Channel Unit 1 - 3 Slot 4 - Analogue Input Channel Unit 1 - 4 Slot 4 - Analogue Input Channel Unit 1 - 5 Slot 4 - Analogue Input Channel Unit 1 - 6 Slot 4 - Analogue 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	3449 3450 3451 3452 3453 3454 3455
SLOT4.2.1.4	Channel Decimal Digit				
P3456	Slot 4 - Analogue Input Channel Decimal Digit - 1 Slot 4 - Analogue Input Channel Decimal Digit - 2 Slot 4 - Analogue Input Channel Decimal Digit - 3 Slot 4 - Analogue Input Channel Decimal Digit - 4 Slot 4 - Analogue Input Channel Decimal Digit - 5 Slot 4 - Analogue Input Channel Decimal Digit - 6 Slot 4 - Analogue Input Channel Decimal Digit - 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1	1	rw, enum	3456 3457 3458 3459 3460 3461 3462

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1			
SLOT4.2.1.5 P3463	Channel Filter Slot 4 - Analogue Input Channel Filter - 1 Slot 4 - Analogue Input Channel Filter - 2 Slot 4 - Analogue Input Channel Filter - 3 Slot 4 - Analogue Input Channel Filter - 4 Slot 4 - Analogue Input Channel Filter - 5 Slot 4 - Analogue Input Channel Filter - 6 Slot 4 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	3463 3464 3465 3466 3467 3468 3469
SLOT4.2.1.6 P3470	Channel Gain Slot 4 - Analogue Input Channel Gain - 1 Slot 4 - Analogue Input Channel Gain - 2 Slot 4 - Analogue Input Channel Gain - 3 Slot 4 - Analogue Input Channel Gain - 4 Slot 4 - Analogue Input Channel Gain - 5 Slot 4 - Analogue Input Channel Gain - 6 Slot 4 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3470 3471 3472 3473 3474 3475 3476
SLOT4.2.1.7 P3478	Channel Offset Slot 4 - Analogue Input Channel Offset - 1 Slot 4 - Analogue Input Channel Offset - 2 Slot 4 - Analogue Input Channel Offset - 3 Slot 4 - Analogue Input Channel Offset - 4 Slot 4 - Analogue Input Channel Offset - 5 Slot 4 - Analogue Input Channel Offset - 6 Slot 4 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3478 3479 3480 3481 3482 3483 3484
SLOT4.2.2	Status				
SLOT4.2.2.1 P3400	Analogue Input 16 Bits Slot 4 - Read Analogue Input 16 Bits - 1 Slot 4 - Read Analogue Input 16 Bits - 2 Slot 4 - Read Analogue Input 16 Bits - 3 Slot 4 - Read Analogue Input 16 Bits - 4 Slot 4 - Read Analogue Input 16 Bits - 5 Slot 4 - Read Analogue Input 16 Bits - 6 Slot 4 - Read Analogue Input 16 Bits - 7	-32768 to 32767	-	ro, s16bit	3400 3401 3402 3403 3404 3405 3406
SLOT4.2.2.2 P3407	Analogue Channel Status Slot 4 - Analogue Channel Status - 1 Slot 4 - Analogue Channel Status - 2 Slot 4 - Analogue Channel Status - 3 Slot 4 - Analogue Channel Status - 4 Slot 4 - Analogue Channel Status - 5 Slot 4 - Analogue Channel Status - 6 Slot 4 - Analogue Channel Status - 7		-	ro, enum	3407 3408 3409 3410 3411 3412 3413

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rdt: Enabled 2 = ai: Open / th: Open / rtd: Open			
SLOT4.3 Slot 4\Analog Output					
SLOT4.3.1	Configuration				
SLOT4.3.1.1	Error Mode				
P5408	Slot 4 - Analogue Output Error Mode - 1 Slot 4 - Analogue Output Error Mode - 2 Slot 4 - Analogue Output Error Mode - 3 Slot 4 - Analogue Output Error Mode - 4 Slot 4 - Analogue Output Error Mode - 5 Slot 4 - Analogue Output Error Mode - 6 Slot 4 - Analogue Output Error Mode - 7 Slot 4 - Analogue Output Error Mode - 8	0 to 255	0	rw, 8bit	5408 5409 5410 5411 5412 5413 5414 5415
SLOT4.3.1.2	Error Value				
P5416	Slot 4 - Analogue Output Error Value - 1 Slot 4 - Analogue Output Error Value - 2 Slot 4 - Analogue Output Error Value - 3 Slot 4 - Analogue Output Error Value - 4 Slot 4 - Analogue Output Error Value - 5 Slot 4 - Analogue Output Error Value - 6 Slot 4 - Analogue Output Error Value - 7 Slot 4 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5416 5417 5418 5419 5420 5421 5422 5423
SLOT4.3.1.3	Channel Gain				
P5432	Slot 4 - Analogue Output Channel Gain - 1 Slot 4 - Analogue Output Channel Gain - 2 Slot 4 - Analogue Output Channel Gain - 3 Slot 4 - Analogue Output Channel Gain - 4 Slot 4 - Analogue Output Channel Gain - 5 Slot 4 - Analogue Output Channel Gain - 6 Slot 4 - Analogue Output Channel Gain - 7 Slot 4 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5432 5433 5434 5435 5436 5437 5438 5439
SLOT4.3.1.4	Channel Offset				
P5440	Slot 4 - Analogue Output Channel Offset - 1 Slot 4 - Analogue Output Channel Offset - 2 Slot 4 - Analogue Output Channel Offset - 3 Slot 4 - Analogue Output Channel Offset - 4 Slot 4 - Analogue Output Channel Offset - 5 Slot 4 - Analogue Output Channel Offset - 6 Slot 4 - Analogue Output Channel Offset - 7 Slot 4 - Analogue Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	5440 5441 5442 5443 5444 5445 5446 5447
SLOT4.3.2	Analogue Output Value 16 Bits				
P5400	Slot 4 - Write Analogue Output 16-Bit - 1 Slot 4 - Write Analogue Output 16-Bit - 2 Slot 4 - Write Analogue Output 16-Bit - 3 Slot 4 - Write Analogue Output 16-Bit - 4 Slot 4 - Write Analogue Output 16-Bit - 5	-32768 to 32767	0	rw, s16bit	5400 5401 5402 5403 5404

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 4 - Write Analogue Output 16-Bit - 6 Slot 4 - Write Analogue Output 16-Bit - 7 Slot 4 - Write Analogue Output 16-Bit - 8				5405 5406 5407
SLOT4.4 Slot 4 Analog Input (SG)					
SLOT4.4.1	Configuration				
SLOT4.4.1.1	Channel Enable				
P7418	Slot 4 - Analogue SG Channel Enable - 1 Slot 4 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7418 7419
SLOT4.4.1.2	Channel Unit				
P7420	Slot 4 - Analogue SG Channel Unit - 1 Slot 4 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7420 7421
SLOT4.4.1.3	Channel Filter				
P7422	Slot 4 - Analogue SG Channel Filter - 1 Slot 4 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7422 7423
SLOT4.4.1.4	Channel Gain				
P7424	Slot 4 - Analogue SG Channel Gain - 1 Slot 4 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7424 7425
SLOT4.4.1.5	Channel Offset				
P7426	Slot 4 - Analogue SG Channel Offset - 1 Slot 4 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7426 7428
SLOT4.4.1.6	Channel Full Scale				
P7430	Slot 4 - Analogue SG Channel Full Scale - 1 Slot 4 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7430 7431
SLOT4.4.1.7	Channel Sensibility				
P7432	Slot 4 - Analogue SG Channel Sensibility - 1 Slot 4 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7432 7433
SLOT4.4.1.8	Channel Sample Rate				
P7434	Slot 4 - Analogue SG Channel Sample Rate - 1 Slot 4 - Analogue SG Channel Sample 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	7434 7435



Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT4.4.1.9 P7436	Channel Maximum Variation Slot 4 - Analogue SG Channel Maximum Variation - 1 Slot 4 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7436 7438
SLOT4.4.1.10 P7440	Channel Discart Value Slot 4 - Analogue SG Channel Discard Value - 1 Slot 4 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7440 7441
SLOT4.4.1.11 P7442	Channel TAU Slot 4 - Analogue SG Channel Filter TAU - 1 Slot 4 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7442 7443
SLOT4.4.1.12 P7444	Channel Variation Step Slot 4 - Analogue SG Channel Variation Step - 1 Slot 4 - Analogue SG 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	7444 7445
SLOT4.4.2	Status				
SLOT4.4.2.1 P7400	Read Weight 16 Bits Slot 4 - Read Weight 16 Bits - 1 Slot 4 - Read Weight 16 Bits - 2	-32768 to 32767	-	ro, s16bit	7400 7401
SLOT4.4.2.2 P7402	Read Weight 32 Bits Slot 4 - Read Weight 32 Bits - 1 Slot 4 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7402 7404
SLOT4.4.2.3 P7406	SG Analogue Channel Status Slot 4 - Analogue SG Channel Status - 1 Slot 4 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7406 7407
SLOT5.1 Slot 5\Digital Input/Output					
SLOT5.1.1 P1502	Write Outputs (DOs) Slot 5 - Write 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	0	rw, 32bit	1502

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		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			
SLOT5.1.2	Read Inputs (DIs)				
P1500	Slot 5 - Read 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	1500
SLOT5.1.3	Configuration				
P1504	Slot 5 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1504
P1506	Slot 5 - Error Value	0 to 4294967295	0	rw, 32bit	1506
SLOT5.2 Slot 5 Analog Input (AI, TH, RTD)					
SLOT5.2.1	Configuration				
SLOT5.2.1.1	Channel Enable				
P3535	Slot 5 - Analogue Input Channel Enable - 1 Slot 5 - Analogue Input Channel Enable - 2 Slot 5 - Analogue Input Channel Enable - 3 Slot 5 - Analogue Input Channel Enable - 4 Slot 5 - Analogue Input Channel Enable - 5 Slot 5 - Analogue Input Channel Enable - 6		1	rw, enum	3535 3536 3537 3538 3539 3540

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 5 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv			3541
SLOT5.2.1.2	Channel Type				
P3542	Slot 5 - Analogue Input Channel Type - 1 Slot 5 - Analogue Input Channel Type - 2 Slot 5 - Analogue Input Channel Type - 3 Slot 5 - Analogue Input Channel Type - 4 Slot 5 - Analogue Input Channel Type - 5 Slot 5 - Analogue Input Channel Type - 6 Slot 5 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100 1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv	0	rw, enum	3542 3543 3544 3545 3546 3547 3548
SLOT5.2.1.3	Channel Unit				
P3549	Slot 5 - Analogue Input Channel Unit 1 - 1 Slot 5 - Analogue Input Channel Unit 1 - 2 Slot 5 - Analogue Input Channel Unit 1 - 3 Slot 5 - Analogue Input Channel Unit 1 - 4 Slot 5 - Analogue Input Channel Unit 1 - 5 Slot 5 - Analogue Input Channel Unit 1 - 6 Slot 5 - Analogue 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	3549 3550 3551 3552 3553 3554 3555
SLOT5.2.1.4	Channel Decimal Digit				
P3556	Slot 5 - Analogue Input Channel Decimal Digit - 1 Slot 5 - Analogue Input Channel Decimal Digit - 2 Slot 5 - Analogue Input Channel Decimal Digit - 3 Slot 5 - Analogue Input Channel Decimal Digit - 4 Slot 5 - Analogue Input Channel Decimal Digit - 5 Slot 5 - Analogue Input Channel Decimal Digit - 6 Slot 5 - Analogue Input Channel Decimal Digit - 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	3556 3557 3558 3559 3560 3561 3562
SLOT5.2.1.5	Channel Filter				
P3563	Slot 5 - Analogue Input Channel Filter - 1 Slot 5 - Analogue Input Channel Filter - 2 Slot 5 - Analogue Input Channel Filter - 3 Slot 5 - Analogue Input Channel Filter - 4 Slot 5 - Analogue Input Channel Filter - 5 Slot 5 - Analogue Input Channel Filter - 6 Slot 5 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values	4	rw, enum	3563 3564 3565 3566 3567 3568 3569

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values			
SLOT5.2.1.6 P3570	Channel Gain Slot 5 - Analogue Input Channel Gain - 1 Slot 5 - Analogue Input Channel Gain - 2 Slot 5 - Analogue Input Channel Gain - 3 Slot 5 - Analogue Input Channel Gain - 4 Slot 5 - Analogue Input Channel Gain - 5 Slot 5 - Analogue Input Channel Gain - 6 Slot 5 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3570 3571 3572 3573 3574 3575 3576
SLOT5.2.1.7 P3578	Channel Offset Slot 5 - Analogue Input Channel Offset - 1 Slot 5 - Analogue Input Channel Offset - 2 Slot 5 - Analogue Input Channel Offset - 3 Slot 5 - Analogue Input Channel Offset - 4 Slot 5 - Analogue Input Channel Offset - 5 Slot 5 - Analogue Input Channel Offset - 6 Slot 5 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3578 3579 3580 3581 3582 3583 3584
SLOT5.2.2	Status				
SLOT5.2.2.1 P3500	Analogue Input 16 Bits Slot 5 - Read Analogue Input 16 Bits - 1 Slot 5 - Read Analogue Input 16 Bits - 2 Slot 5 - Read Analogue Input 16 Bits - 3 Slot 5 - Read Analogue Input 16 Bits - 4 Slot 5 - Read Analogue Input 16 Bits - 5 Slot 5 - Read Analogue Input 16 Bits - 6 Slot 5 - Read Analogue Input 16 Bits - 7	-32768 to 32767	-	ro, s16bit	3500 3501 3502 3503 3504 3505 3506
SLOT5.2.2.2 P3507	Analogue Channel Status Slot 5 - Analogue Channel Status - 1 Slot 5 - Analogue Channel Status - 2 Slot 5 - Analogue Channel Status - 3 Slot 5 - Analogue Channel Status - 4 Slot 5 - Analogue Channel Status - 5 Slot 5 - Analogue Channel Status - 6 Slot 5 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rtd: Enabled 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	3507 3508 3509 3510 3511 3512 3513
SLOT5.3 Slot 5\Analogue Output					
SLOT5.3.1	Configuration				
SLOT5.3.1.1 P5508	Error Mode Slot 5 - Analogue Output Error Mode - 1 Slot 5 - Analogue Output Error Mode - 2 Slot 5 - Analogue Output Error Mode - 3 Slot 5 - Analogue Output Error Mode - 4 Slot 5 - Analogue Output Error Mode - 5	0 to 255	0	rw, 8bit	5508 5509 5510 5511 5512

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 5 - Analogue Output Error Mode - 6 Slot 5 - Analogue Output Error Mode - 7 Slot 5 - Analogue Output Error Mode - 8				5513 5514 5515
SLOT5.3.1.2	Error Value				
P5516	Slot 5 - Analogue Output Error Value - 1 Slot 5 - Analogue Output Error Value - 2 Slot 5 - Analogue Output Error Value - 3 Slot 5 - Analogue Output Error Value - 4 Slot 5 - Analogue Output Error Value - 5 Slot 5 - Analogue Output Error Value - 6 Slot 5 - Analogue Output Error Value - 7 Slot 5 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5516 5517 5518 5519 5520 5521 5522 5523
SLOT5.3.1.3	Channel Gain				
P5532	Slot 5 - Analogue Output Channel Gain - 1 Slot 5 - Analogue Output Channel Gain - 2 Slot 5 - Analogue Output Channel Gain - 3 Slot 5 - Analogue Output Channel Gain - 4 Slot 5 - Analogue Output Channel Gain - 5 Slot 5 - Analogue Output Channel Gain - 6 Slot 5 - Analogue Output Channel Gain - 7 Slot 5 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5532 5533 5534 5535 5536 5537 5538 5539
SLOT5.3.1.4	Channel Offset				
P5540	Slot 5 - Analogue Output Channel Offset - 1 Slot 5 - Analogue Output Channel Offset - 2 Slot 5 - Analogue Output Channel Offset - 3 Slot 5 - Analogue Output Channel Offset - 4 Slot 5 - Analogue Output Channel Offset - 5 Slot 5 - Analogue Output Channel Offset - 6 Slot 5 - Analogue Output Channel Offset - 7 Slot 5 - Analogue Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	5540 5541 5542 5543 5544 5545 5546 5547
SLOT5.3.2	Analogue Output Value 16 Bits				
P5500	Slot 5 - Write Analogue Output 16-Bit - 1 Slot 5 - Write Analogue Output 16-Bit - 2 Slot 5 - Write Analogue Output 16-Bit - 3 Slot 5 - Write Analogue Output 16-Bit - 4 Slot 5 - Write Analogue Output 16-Bit - 5 Slot 5 - Write Analogue Output 16-Bit - 6 Slot 5 - Write Analogue Output 16-Bit - 7 Slot 5 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5500 5501 5502 5503 5504 5505 5506 5507
SLOT5.4 Slot 5 Analog Input (SG)					
SLOT5.4.1	Configuration				
SLOT5.4.1.1	Channel Enable				
P7518	Slot 5 - Analogue SG Channel Enable - 1 Slot 5 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7518 7519
SLOT5.4.1.2	Channel Unit				
P7520	Slot 5 - Analogue SG Channel Unit - 1		0	rw, enum	7520

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 5 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t			7521
SLOT5.4.1.3 P7522	Channel Filter Slot 5 - Analogue SG Channel Filter - 1 Slot 5 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7522 7523
SLOT5.4.1.4 P7524	Channel Gain Slot 5 - Analogue SG Channel Gain - 1 Slot 5 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7524 7525
SLOT5.4.1.5 P7526	Channel Offset Slot 5 - Analogue SG Channel Offset - 1 Slot 5 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7526 7528
SLOT5.4.1.6 P7530	Channel Full Scale Slot 5 - Analogue SG Channel Full Scale - 1 Slot 5 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7530 7531
SLOT5.4.1.7 P7532	Channel Sensibility Slot 5 - Analogue SG Channel Sensibility - 1 Slot 5 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7532 7533
SLOT5.4.1.8 P7534	Channel Sample Rate Slot 5 - Analogue SG Channel Sample Rate - 1 Slot 5 - Analogue SG Channel Sample 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	7534 7535
SLOT5.4.1.9 P7536	Channel Maximum Variation Slot 5 - Analogue SG Channel Maximum Variation - 1 Slot 5 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7536 7538
SLOT5.4.1.10 P7540	Channel Discart Value Slot 5 - Analogue SG Channel Discard Value - 1 Slot 5 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7540 7541
SLOT5.4.1.11 P7542	Channel TAU Slot 5 - Analogue SG Channel Filter TAU - 1 Slot 5 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7542 7543
SLOT5.4.1.12	Channel Variation Step				

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
P7544	Slot 5 - Analogue SG Channel Variation Step - 1 Slot 5 - Analogue SG 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	7544 7545
SLOT5.4.2	Status				
SLOT5.4.2.1	Read Weight 16 Bits				
P7500	Slot 5 - Read Weight 16 Bits - 1 Slot 5 - Read Weight 16 Bits - 2	-32768 to 32767	-	ro, s16bit	7500 7501
SLOT5.4.2.2	Read Weight 32 Bits				
P7502	Slot 5 - Read Weight 32 Bits - 1 Slot 5 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7502 7504
SLOT5.4.2.3	SG Analogue Channel Status				
P7506	Slot 5 - Analogue SG Channel Status - 1 Slot 5 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7506 7507
SLOT6.1 Slot 6\Digital Input/Output					
SLOT6.1.1	Write Outputs (DOs)				
P1602	Slot 6 - Write 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	1602
SLOT6.1.2	Read Inputs (DIs)				
P1600	Slot 6 - Read Digital Inputs (DIs)		-	ro, 32bit	1600

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		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			
SLOT6.1.3	Configuration				
P1604	Slot 6 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1604
P1606	Slot 6 - Error Value	0 to 4294967295	0	rw, 32bit	1606
SLOT6.2 Slot 6 Analog Input (AI, TH, RTD)					
SLOT6.2.1	Configuration				
SLOT6.2.1.1	Channel Enable				
P3635	Slot 6 - Analogue Input Channel Enable - 1 Slot 6 - Analogue Input Channel Enable - 2 Slot 6 - Analogue Input Channel Enable - 3 Slot 6 - Analogue Input Channel Enable - 4 Slot 6 - Analogue Input Channel Enable - 5 Slot 6 - Analogue Input Channel Enable - 6 Slot 6 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv	1	rw, enum	3635 3636 3637 3638 3639 3640 3641
SLOT6.2.1.2	Channel Type				
P3642	Slot 6 - Analogue Input Channel Type - 1 Slot 6 - Analogue Input Channel Type - 2 Slot 6 - Analogue Input Channel Type - 3 Slot 6 - Analogue Input Channel Type - 4 Slot 6 - Analogue Input Channel Type - 5 Slot 6 - Analogue Input Channel Type - 6 Slot 6 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100	0	rw, enum	3642 3643 3644 3645 3646 3647 3648

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv			
SLOT6.2.1.3 P3649	Channel Unit Slot 6 - Analogue Input Channel Unit 1 - 1 Slot 6 - Analogue Input Channel Unit 1 - 2 Slot 6 - Analogue Input Channel Unit 1 - 3 Slot 6 - Analogue Input Channel Unit 1 - 4 Slot 6 - Analogue Input Channel Unit 1 - 5 Slot 6 - Analogue Input Channel Unit 1 - 6 Slot 6 - Analogue 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	3649 3650 3651 3652 3653 3654 3655
SLOT6.2.1.4 P3656	Channel Decimal Digit Slot 6 - Analogue Input Channel Decimal Digit - 1 Slot 6 - Analogue Input Channel Decimal Digit - 2 Slot 6 - Analogue Input Channel Decimal Digit - 3 Slot 6 - Analogue Input Channel Decimal Digit - 4 Slot 6 - Analogue Input Channel Decimal Digit - 5 Slot 6 - Analogue Input Channel Decimal Digit - 6 Slot 6 - Analogue Input Channel Decimal Digit - 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	3656 3657 3658 3659 3660 3661 3662
SLOT6.2.1.5 P3663	Channel Filter Slot 6 - Analogue Input Channel Filter - 1 Slot 6 - Analogue Input Channel Filter - 2 Slot 6 - Analogue Input Channel Filter - 3 Slot 6 - Analogue Input Channel Filter - 4 Slot 6 - Analogue Input Channel Filter - 5 Slot 6 - Analogue Input Channel Filter - 6 Slot 6 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	3663 3664 3665 3666 3667 3668 3669
SLOT6.2.1.6 P3670	Channel Gain Slot 6 - Analogue Input Channel Gain - 1 Slot 6 - Analogue Input Channel Gain - 2 Slot 6 - Analogue Input Channel Gain - 3 Slot 6 - Analogue Input Channel Gain - 4 Slot 6 - Analogue Input Channel Gain - 5 Slot 6 - Analogue Input Channel Gain - 6 Slot 6 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3670 3671 3672 3673 3674 3675 3676
SLOT6.2.1.7 P3678	Channel Offset Slot 6 - Analogue Input Channel Offset - 1	-32768 to 32767	0	rw, s16bit	3678

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 6 - Analogue Input Channel Offset - 2 Slot 6 - Analogue Input Channel Offset - 3 Slot 6 - Analogue Input Channel Offset - 4 Slot 6 - Analogue Input Channel Offset - 5 Slot 6 - Analogue Input Channel Offset - 6 Slot 6 - Analogue Input Channel Offset - 7				3679 3680 3681 3682 3683 3684
SLOT6.2.2	Status				
SLOT6.2.2.1	Analogue Input 16 Bits				
P3600	Slot 6 - Read Analogue Input 16 Bits - 1 Slot 6 - Read Analogue Input 16 Bits - 2 Slot 6 - Read Analogue Input 16 Bits - 3 Slot 6 - Read Analogue Input 16 Bits - 4 Slot 6 - Read Analogue Input 16 Bits - 5 Slot 6 - Read Analogue Input 16 Bits - 6 Slot 6 - Read Analogue Input 16 Bits - 7	-32768 to 32767	-	ro, s16bit	3600 3601 3602 3603 3604 3605 3606
SLOT6.2.2.2	Analogue Channel Status				
P3607	Slot 6 - Analogue Channel Status - 1 Slot 6 - Analogue Channel Status - 2 Slot 6 - Analogue Channel Status - 3 Slot 6 - Analogue Channel Status - 4 Slot 6 - Analogue Channel Status - 5 Slot 6 - Analogue Channel Status - 6 Slot 6 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rdt: Enabled 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	3607 3608 3609 3610 3611 3612 3613
SLOT6.3 Slot 6 Analog Output					
SLOT6.3.1	Configuration				
SLOT6.3.1.1	Error Mode				
P5608	Slot 6 - Analogue Output Error Mode - 1 Slot 6 - Analogue Output Error Mode - 2 Slot 6 - Analogue Output Error Mode - 3 Slot 6 - Analogue Output Error Mode - 4 Slot 6 - Analogue Output Error Mode - 5 Slot 6 - Analogue Output Error Mode - 6 Slot 6 - Analogue Output Error Mode - 7 Slot 6 - Analogue Output Error Mode - 8	0 to 255	0	rw, 8bit	5608 5609 5610 5611 5612 5613 5614 5615
SLOT6.3.1.2	Error Value				
P5616	Slot 6 - Analogue Output Error Value - 1 Slot 6 - Analogue Output Error Value - 2 Slot 6 - Analogue Output Error Value - 3 Slot 6 - Analogue Output Error Value - 4 Slot 6 - Analogue Output Error Value - 5 Slot 6 - Analogue Output Error Value - 6 Slot 6 - Analogue Output Error Value - 7 Slot 6 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5616 5617 5618 5619 5620 5621 5622 5623
SLOT6.3.1.3	Channel Gain				

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
P5632	Slot 6 - Analogue Output Channel Gain - 1 Slot 6 - Analogue Output Channel Gain - 2 Slot 6 - Analogue Output Channel Gain - 3 Slot 6 - Analogue Output Channel Gain - 4 Slot 6 - Analogue Output Channel Gain - 5 Slot 6 - Analogue Output Channel Gain - 6 Slot 6 - Analogue Output Channel Gain - 7 Slot 6 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5632 5633 5634 5635 5636 5637 5638 5639
SLOT6.3.1.4	Channel Offset				
P5640	Slot 6 - Analogue Output Channel Offset - 1 Slot 6 - Analogue Output Channel Offset - 2 Slot 6 - Analogue Output Channel Offset - 3 Slot 6 - Analogue Output Channel Offset - 4 Slot 6 - Analogue Output Channel Offset - 5 Slot 6 - Analogue Output Channel Offset - 6 Slot 6 - Analogue Output Channel Offset - 7 Slot 6 - Analogue Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	5640 5641 5642 5643 5644 5645 5646 5647
SLOT6.3.2	Analogue Output Value 16 Bits				
P5600	Slot 6 - Write Analogue Output 16-Bit - 1 Slot 6 - Write Analogue Output 16-Bit - 2 Slot 6 - Write Analogue Output 16-Bit - 3 Slot 6 - Write Analogue Output 16-Bit - 4 Slot 6 - Write Analogue Output 16-Bit - 5 Slot 6 - Write Analogue Output 16-Bit - 6 Slot 6 - Write Analogue Output 16-Bit - 7 Slot 6 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5600 5601 5602 5603 5604 5605 5606 5607
SLOT6.4 Slot 6 Analog Input (SG)					
SLOT6.4.1	Configuration				
SLOT6.4.1.1	Channel Enable				
P7618	Slot 6 - Analogue SG Channel Enable - 1 Slot 6 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7618 7619
SLOT6.4.1.2	Channel Unit				
P7620	Slot 6 - Analogue SG Channel Unit - 1 Slot 6 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7620 7621
SLOT6.4.1.3	Channel Filter				
P7622	Slot 6 - Analogue SG Channel Filter - 1 Slot 6 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7622 7623

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT6.4.1.4 P7624	Channel Gain Slot 6 - Analogue SG Channel Gain - 1 Slot 6 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7624 7625
SLOT6.4.1.5 P7626	Channel Offset Slot 6 - Analogue SG Channel Offset - 1 Slot 6 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7626 7628
SLOT6.4.1.6 P7630	Channel Full Scale Slot 6 - Analogue SG Channel Full Scale - 1 Slot 6 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7630 7631
SLOT6.4.1.7 P7632	Channel Sensibility Slot 6 - Analogue SG Channel Sensibility - 1 Slot 6 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7632 7633
SLOT6.4.1.8 P7634	Channel Sample Rate Slot 6 - Analogue SG Channel Sample Rate - 1 Slot 6 - Analogue SG Channel Sample 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	7634 7635
SLOT6.4.1.9 P7636	Channel Maximum Variation Slot 6 - Analogue SG Channel Maximum Variation - 1 Slot 6 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7636 7638
SLOT6.4.1.10 P7640	Channel Discart Value Slot 6 - Analogue SG Channel Discart Value - 1 Slot 6 - Analogue SG Channel Discart Value - 2	0 = Keep 1 = Discard	0	rw, enum	7640 7641
SLOT6.4.1.11 P7642	Channel TAU Slot 6 - Analogue SG Channel Filter TAU - 1 Slot 6 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7642 7643
SLOT6.4.1.12 P7644	Channel Variation Step Slot 6 - Analogue SG Channel Variation Step - 1 Slot 6 - Analogue SG 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	7644 7645
SLOT6.4.2	Status				
SLOT6.4.2.1 P7600	Read Weight 16 Bits Slot 6 - Read Weight 16 Bits - 1 Slot 6 - Read Weight 16 Bits - 2	-32768 to 32767	-	ro, s16bit	7600 7601
SLOT6.4.2.2	Read Weight 32 Bits				



Parameter	Description	Range of values	Factory setting	Properties	Communication Address
P7602	Slot 6 - Read Weight 32 Bits - 1 Slot 6 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7602 7604
SLOT6.4.2.3	SG Analogue Channel Status				
P7606	Slot 6 - Analogue SG Channel Status - 1 Slot 6 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7606 7607
SLOT7.1 Slot 7\Digital Input/Output					
SLOT7.1.1	Write Outputs (DOs)				
P1702	Slot 7 - Write 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	1702
SLOT7.1.2	Read Inputs (DIs)				
P1700	Slot 7 - Read 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	-	ro, 32bit	1700

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		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			
SLOT7.1.3	Configuration				
P1704	Slot 7 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1704
P1706	Slot 7 - Error Value	0 to 4294967295	0	rw, 32bit	1706
SLOT7.2 Slot 7 Analog Input (AI, TH, RTD)					
SLOT7.2.1	Configuration				
SLOT7.2.1.1	Channel Enable				
P3735	Slot 7 - Analogue Input Channel Enable - 1 Slot 7 - Analogue Input Channel Enable - 2 Slot 7 - Analogue Input Channel Enable - 3 Slot 7 - Analogue Input Channel Enable - 4 Slot 7 - Analogue Input Channel Enable - 5 Slot 7 - Analogue Input Channel Enable - 6 Slot 7 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv	1	rw, enum	3735 3736 3737 3738 3739 3740 3741
SLOT7.2.1.2	Channel Type				
P3742	Slot 7 - Analogue Input Channel Type - 1 Slot 7 - Analogue Input Channel Type - 2 Slot 7 - Analogue Input Channel Type - 3 Slot 7 - Analogue Input Channel Type - 4 Slot 7 - Analogue Input Channel Type - 5 Slot 7 - Analogue Input Channel Type - 6 Slot 7 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100 1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv	0	rw, enum	3742 3743 3744 3745 3746 3747 3748
SLOT7.2.1.3	Channel Unit				
P3749	Slot 7 - Analogue Input Channel Unit 1 - 1 Slot 7 - Analogue Input Channel Unit 1 - 2 Slot 7 - Analogue Input Channel Unit 1 - 3 Slot 7 - Analogue Input Channel Unit 1 - 4 Slot 7 - Analogue Input Channel Unit 1 - 5 Slot 7 - Analogue Input Channel Unit 1 - 6 Slot 7 - Analogue 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	3749 3750 3751 3752 3753 3754 3755

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT7.2.1.4 P3756	Channel Decimal Digit Slot 7 - Analogue Input Channel Decimal Digit - 1 Slot 7 - Analogue Input Channel Decimal Digit - 2 Slot 7 - Analogue Input Channel Decimal Digit - 3 Slot 7 - Analogue Input Channel Decimal Digit - 4 Slot 7 - Analogue Input Channel Decimal Digit - 5 Slot 7 - Analogue Input Channel Decimal Digit - 6 Slot 7 - Analogue Input Channel Decimal Digit - 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	3756 3757 3758 3759 3760 3761 3762
SLOT7.2.1.5 P3763	Channel Filter Slot 7 - Analogue Input Channel Filter - 1 Slot 7 - Analogue Input Channel Filter - 2 Slot 7 - Analogue Input Channel Filter - 3 Slot 7 - Analogue Input Channel Filter - 4 Slot 7 - Analogue Input Channel Filter - 5 Slot 7 - Analogue Input Channel Filter - 6 Slot 7 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	3763 3764 3765 3766 3767 3768 3769
SLOT7.2.1.6 P3770	Channel Gain Slot 7 - Analogue Input Channel Gain - 1 Slot 7 - Analogue Input Channel Gain - 2 Slot 7 - Analogue Input Channel Gain - 3 Slot 7 - Analogue Input Channel Gain - 4 Slot 7 - Analogue Input Channel Gain - 5 Slot 7 - Analogue Input Channel Gain - 6 Slot 7 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3770 3771 3772 3773 3774 3775 3776
SLOT7.2.1.7 P3778	Channel Offset Slot 7 - Analogue Input Channel Offset - 1 Slot 7 - Analogue Input Channel Offset - 2 Slot 7 - Analogue Input Channel Offset - 3 Slot 7 - Analogue Input Channel Offset - 4 Slot 7 - Analogue Input Channel Offset - 5 Slot 7 - Analogue Input Channel Offset - 6 Slot 7 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3778 3779 3780 3781 3782 3783 3784
SLOT7.2.2	Status				
SLOT7.2.2.1 P3700	Analogue Input 16 Bits Slot 7 - Read Analogue Input 16 Bits - 1 Slot 7 - Read Analogue Input 16 Bits - 2 Slot 7 - Read Analogue Input 16 Bits - 3 Slot 7 - Read Analogue Input 16 Bits - 4 Slot 7 - Read Analogue Input 16 Bits - 5	-32768 to 32767	-	ro, s16bit	3700 3701 3702 3703 3704

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 7 - Read Analogue Input 16 Bits - 6 Slot 7 - Read Analogue Input 16 Bits - 7				3705 3706
SLOT7.2.2.2	Analogue Channel Status				
P3707	Slot 7 - Analogue Channel Status - 1 Slot 7 - Analogue Channel Status - 2 Slot 7 - Analogue Channel Status - 3 Slot 7 - Analogue Channel Status - 4 Slot 7 - Analogue Channel Status - 5 Slot 7 - Analogue Channel Status - 6 Slot 7 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rdt: Enabled 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	3707 3708 3709 3710 3711 3712 3713
SLOT7.3 Slot 7 Analog Output					
SLOT7.3.1	Configuration				
SLOT7.3.1.1	Error Mode				
P5708	Slot 7 - Analogue Output Error Mode - 1 Slot 7 - Analogue Output Error Mode - 2 Slot 7 - Analogue Output Error Mode - 3 Slot 7 - Analogue Output Error Mode - 4 Slot 7 - Analogue Output Error Mode - 5 Slot 7 - Analogue Output Error Mode - 6 Slot 7 - Analogue Output Error Mode - 7 Slot 7 - Analogue Output Error Mode - 8	0 to 255	0	rw, 8bit	5708 5709 5710 5711 5712 5713 5714 5715
SLOT7.3.1.2	Error Value				
P5716	Slot 7 - Analogue Output Error Value - 1 Slot 7 - Analogue Output Error Value - 2 Slot 7 - Analogue Output Error Value - 3 Slot 7 - Analogue Output Error Value - 4 Slot 7 - Analogue Output Error Value - 5 Slot 7 - Analogue Output Error Value - 6 Slot 7 - Analogue Output Error Value - 7 Slot 7 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5716 5717 5718 5719 5720 5721 5722 5723
SLOT7.3.1.3	Channel Gain				
P5732	Slot 7 - Analogue Output Channel Gain - 1 Slot 7 - Analogue Output Channel Gain - 2 Slot 7 - Analogue Output Channel Gain - 3 Slot 7 - Analogue Output Channel Gain - 4 Slot 7 - Analogue Output Channel Gain - 5 Slot 7 - Analogue Output Channel Gain - 6 Slot 7 - Analogue Output Channel Gain - 7 Slot 7 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5732 5733 5734 5735 5736 5737 5738 5739
SLOT7.3.1.4	Channel Offset				
P5740	Slot 7 - Analogue Output Channel Offset - 1 Slot 7 - Analogue Output Channel Offset - 2 Slot 7 - Analogue Output Channel Offset - 3 Slot 7 - Analogue Output Channel Offset - 4	-32768 to 32767	0	rw, s16bit	5740 5741 5742 5743

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
	Slot 7 - Analogue Output Channel Offset - 5 Slot 7 - Analogue Output Channel Offset - 6 Slot 7 - Analogue Output Channel Offset - 7 Slot 7 - Analogue Output Channel Offset - 8				5744 5745 5746 5747
SLOT7.3.2	Analogue Output Value 16 Bits				
P5700	Slot 7 - Write Analogue Output 16-Bit - 1 Slot 7 - Write Analogue Output 16-Bit - 2 Slot 7 - Write Analogue Output 16-Bit - 3 Slot 7 - Write Analogue Output 16-Bit - 4 Slot 7 - Write Analogue Output 16-Bit - 5 Slot 7 - Write Analogue Output 16-Bit - 6 Slot 7 - Write Analogue Output 16-Bit - 7 Slot 7 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5700 5701 5702 5703 5704 5705 5706 5707
SLOT7.4 Slot 7\Analog Input (SG)					
SLOT7.4.1	Configuration				
SLOT7.4.1.1	Channel Enable				
P7718	Slot 7 - Analogue SG Channel Enable - 1 Slot 7 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7718 7719
SLOT7.4.1.2	Channel Unit				
P7720	Slot 7 - Analogue SG Channel Unit - 1 Slot 7 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7720 7721
SLOT7.4.1.3	Channel Filter				
P7722	Slot 7 - Analogue SG Channel Filter - 1 Slot 7 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7722 7723
SLOT7.4.1.4	Channel Gain				
P7724	Slot 7 - Analogue SG Channel Gain - 1 Slot 7 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7724 7725
SLOT7.4.1.5	Channel Offset				
P7726	Slot 7 - Analogue SG Channel Offset - 1 Slot 7 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7726 7728
SLOT7.4.1.6	Channel Full Scale				
P7730	Slot 7 - Analogue SG Channel Full Scale - 1 Slot 7 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7730 7731
SLOT7.4.1.7	Channel Sensibility				
P7732	Slot 7 - Analogue SG Channel Sensibility - 1 Slot 7 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7732 7733

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT7.4.1.8 P7734	Channel Sample Rate Slot 7 - Analogue SG Channel Sample Rate - 1 Slot 7 - Analogue SG Channel Sample 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	7734 7735
SLOT7.4.1.9 P7736	Channel Maximum Variation Slot 7 - Analogue SG Channel Maximum Variation - 1 Slot 7 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7736 7738
SLOT7.4.1.10 P7740	Channel Discart Value Slot 7 - Analogue SG Channel Discard Value - 1 Slot 7 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7740 7741
SLOT7.4.1.11 P7742	Channel TAU Slot 7 - Analogue SG Channel Filter TAU - 1 Slot 7 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7742 7743
SLOT7.4.1.12 P7744	Channel Variation Step Slot 7 - Analogue SG Channel Variation Step - 1 Slot 7 - Analogue SG 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	7744 7745
SLOT7.4.2	Status				
SLOT7.4.2.1 P7700	Read Weight 16 Bits Slot 7 - Read Weight 16 Bits - 1 Slot 7 - Read Weight 16 Bits - 2	-32768 to 32767	-	ro, s16bit	7700 7701
SLOT7.4.2.2 P7702	Read Weight 32 Bits Slot 7 - Read Weight 32 Bits - 1 Slot 7 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7702 7704
SLOT7.4.2.3 P7706	SG Analogue Channel Status Slot 7 - Analogue SG Channel Status - 1 Slot 7 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7706 7707
SLOT8.1 Slot 8\Digital Input/Output					
SLOT8.1.1 P1802	Write Outputs (DOs) Slot 8 - Write Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03	0	rw, 32bit	1802

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		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			
SLOT8.1.2	Read Inputs (DIs)				
P1800	Slot 8 - Read 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	1800
SLOT8.1.3	Configuration				
P1804	Slot 8 - Error Mode Output	0 to 4294967295	0	rw, 32bit	1804
P1806	Slot 8 - Error Value	0 to 4294967295	0	rw, 32bit	1806

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT8.2 Slot 8\Analogue Input (AI, TH, RTD)					
SLOT8.2.1	Configuration				
SLOT8.2.1.1	Channel Enable				
P3835	Slot 8 - Analogue Input Channel Enable - 1 Slot 8 - Analogue Input Channel Enable - 2 Slot 8 - Analogue Input Channel Enable - 3 Slot 8 - Analogue Input Channel Enable - 4 Slot 8 - Analogue Input Channel Enable - 5 Slot 8 - Analogue Input Channel Enable - 6 Slot 8 - Analogue Input Channel Enable - 7	0 = Disable / Disable / Disable 1 = Enable / Enable With CJC / Enable 2 = Reserv / Enable No CJC / Reserv	1	rw, enum	3835 3836 3837 3838 3839 3840 3841
SLOT8.2.1.2	Channel Type				
P3842	Slot 8 - Analogue Input Channel Type - 1 Slot 8 - Analogue Input Channel Type - 2 Slot 8 - Analogue Input Channel Type - 3 Slot 8 - Analogue Input Channel Type - 4 Slot 8 - Analogue Input Channel Type - 5 Slot 8 - Analogue Input Channel Type - 6 Slot 8 - Analogue Input Channel Type - 7	0 = AI: 0-10V / TH: J / PT100 1 = AI: 0-20mA / TH: K / PT1000 2 = AI: 4-20mA / TH: T / Reserv	0	rw, enum	3842 3843 3844 3845 3846 3847 3848
SLOT8.2.1.3	Channel Unit				
P3849	Slot 8 - Analogue Input Channel Unit 1 - 1 Slot 8 - Analogue Input Channel Unit 1 - 2 Slot 8 - Analogue Input Channel Unit 1 - 3 Slot 8 - Analogue Input Channel Unit 1 - 4 Slot 8 - Analogue Input Channel Unit 1 - 5 Slot 8 - Analogue Input Channel Unit 1 - 6 Slot 8 - Analogue 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	3849 3850 3851 3852 3853 3854 3855
SLOT8.2.1.4	Channel Decimal Digit				
P3856	Slot 8 - Analogue Input Channel Decimal Digit - 1 Slot 8 - Analogue Input Channel Decimal Digit - 2 Slot 8 - Analogue Input Channel Decimal Digit - 3 Slot 8 - Analogue Input Channel Decimal Digit - 4 Slot 8 - Analogue Input Channel Decimal Digit - 5 Slot 8 - Analogue Input Channel Decimal Digit - 6 Slot 8 - Analogue Input Channel Decimal Digit - 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	3856 3857 3858 3859 3860 3861 3862
SLOT8.2.1.5	Channel Filter				

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
P3863	Slot 8 - Analogue Input Channel Filter - 1 Slot 8 - Analogue Input Channel Filter - 2 Slot 8 - Analogue Input Channel Filter - 3 Slot 8 - Analogue Input Channel Filter - 4 Slot 8 - Analogue Input Channel Filter - 5 Slot 8 - Analogue Input Channel Filter - 6 Slot 8 - Analogue Input Channel Filter - 7	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	3863 3864 3865 3866 3867 3868 3869
SLOT8.2.1.6	Channel Gain				
P3870	Slot 8 - Analogue Input Channel Gain - 1 Slot 8 - Analogue Input Channel Gain - 2 Slot 8 - Analogue Input Channel Gain - 3 Slot 8 - Analogue Input Channel Gain - 4 Slot 8 - Analogue Input Channel Gain - 5 Slot 8 - Analogue Input Channel Gain - 6 Slot 8 - Analogue Input Channel Gain - 7	-32768 to 32767	1000	rw, s16bit	3870 3871 3872 3873 3874 3875 3876
SLOT8.2.1.7	Channel Offset				
P3878	Slot 8 - Analogue Input Channel Offset - 1 Slot 8 - Analogue Input Channel Offset - 2 Slot 8 - Analogue Input Channel Offset - 3 Slot 8 - Analogue Input Channel Offset - 4 Slot 8 - Analogue Input Channel Offset - 5 Slot 8 - Analogue Input Channel Offset - 6 Slot 8 - Analogue Input Channel Offset - 7	-32768 to 32767	0	rw, s16bit	3878 3879 3880 3881 3882 3883 3884
SLOT8.2.2	Status				
SLOT8.2.2.1	Analogue Input 16 Bits				
P3800	Slot 8 - Read Analogue Input 16 Bits - 1 Slot 8 - Read Analogue Input 16 Bits - 2 Slot 8 - Read Analogue Input 16 Bits - 3 Slot 8 - Read Analogue Input 16 Bits - 4 Slot 8 - Read Analogue Input 16 Bits - 5 Slot 8 - Read Analogue Input 16 Bits - 6 Slot 8 - Read Analogue Input 16 Bits - 7	-32768 to 32767	-	ro, s16bit	3800 3801 3802 3803 3804 3805 3806
SLOT8.2.2.2	Analogue Channel Status				
P3807	Slot 8 - Analogue Channel Status - 1 Slot 8 - Analogue Channel Status - 2 Slot 8 - Analogue Channel Status - 3 Slot 8 - Analogue Channel Status - 4 Slot 8 - Analogue Channel Status - 5 Slot 8 - Analogue Channel Status - 6 Slot 8 - Analogue Channel Status - 7	0 = ai: Disabled / th: Disabled / rtd: Disabled 1 = ai: Enabled / th: Enabled / rtd: Enabled	-	ro, enum	3807 3808 3809 3810 3811 3812 3813

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
		2 = ai: Open / th: Open / rtd: Open			
SLOT8.3 Slot 8\Analog Output					
SLOT8.3.1	Configuration				
SLOT8.3.1.1	Error Mode				
P5808	Slot 8 - Analogue Output Error Mode - 1 Slot 8 - Analogue Output Error Mode - 2 Slot 8 - Analogue Output Error Mode - 3 Slot 8 - Analogue Output Error Mode - 4 Slot 8 - Analogue Output Error Mode - 5 Slot 8 - Analogue Output Error Mode - 6 Slot 8 - Analogue Output Error Mode - 7 Slot 8 - Analogue Output Error Mode - 8	0 to 255	0	rw, 8bit	5808 5809 5810 5811 5812 5813 5814 5815
SLOT8.3.1.2	Error Value				
P5816	Slot 8 - Analogue Output Error Value - 1 Slot 8 - Analogue Output Error Value - 2 Slot 8 - Analogue Output Error Value - 3 Slot 8 - Analogue Output Error Value - 4 Slot 8 - Analogue Output Error Value - 5 Slot 8 - Analogue Output Error Value - 6 Slot 8 - Analogue Output Error Value - 7 Slot 8 - Analogue Output Error Value - 8	-32768 to 32767	0	rw, s16bit	5816 5817 5818 5819 5820 5821 5822 5823
SLOT8.3.1.3	Channel Gain				
P5832	Slot 8 - Analogue Output Channel Gain - 1 Slot 8 - Analogue Output Channel Gain - 2 Slot 8 - Analogue Output Channel Gain - 3 Slot 8 - Analogue Output Channel Gain - 4 Slot 8 - Analogue Output Channel Gain - 5 Slot 8 - Analogue Output Channel Gain - 6 Slot 8 - Analogue Output Channel Gain - 7 Slot 8 - Analogue Output Channel Gain - 8	0 to 65535	1000	rw, 16bit	5832 5833 5834 5835 5836 5837 5838 5839
SLOT8.3.1.4	Channel Offset				
P5840	Slot 8 - Analogue Output Channel Offset - 1 Slot 8 - Analogue Output Channel Offset - 2 Slot 8 - Analogue Output Channel Offset - 3 Slot 8 - Analogue Output Channel Offset - 4 Slot 8 - Analogue Output Channel Offset - 5 Slot 8 - Analogue Output Channel Offset - 6 Slot 8 - Analogue Output Channel Offset - 7 Slot 8 - Analogue Output Channel Offset - 8	-32768 to 32767	0	rw, s16bit	5840 5841 5842 5843 5844 5845 5846 5847
SLOT8.3.2	Analogue Output Value 16 Bits				
P5800	Slot 8 - Write Analogue Output 16-Bit - 1 Slot 8 - Write Analogue Output 16-Bit - 2 Slot 8 - Write Analogue Output 16-Bit - 3 Slot 8 - Write Analogue Output 16-Bit - 4 Slot 8 - Write Analogue Output 16-Bit - 5 Slot 8 - Write Analogue Output 16-Bit - 6 Slot 8 - Write Analogue Output 16-Bit - 7 Slot 8 - Write Analogue Output 16-Bit - 8	-32768 to 32767	0	rw, s16bit	5800 5801 5802 5803 5804 5805 5806 5807

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT8.4 Slot 8 \Analog Input (SG)					
SLOT8.4.1	Configuration				
SLOT8.4.1.1	Channel Enable				
P7818	Slot 8 - Analogue SG Channel Enable - 1 Slot 8 - Analogue SG Channel Enable - 2	0 = Disable 1 = Enable	1	rw, enum	7818 7819
SLOT8.4.1.2	Channel Unit				
P7820	Slot 8 - Analogue SG Channel Unit - 1 Slot 8 - Analogue SG Channel Unit - 2	0 = g 1 = kg 2 = t	0	rw, enum	7820 7821
SLOT8.4.1.3	Channel Filter				
P7822	Slot 8 - Analogue SG Channel Filter - 1 Slot 8 - Analogue SG Channel Filter - 2	0 = No Filter 1 = Average 2 Values 2 = Average 4 Values 3 = Average 8 Values 4 = Average 16 Values 5 = Average 32 Values	4	rw, enum	7822 7823
SLOT8.4.1.4	Channel Gain				
P7824	Slot 8 - Analogue SG Channel Gain - 1 Slot 8 - Analogue SG Channel Gain - 2	-32768 to 32767	1000	rw, s16bit	7824 7825
SLOT8.4.1.5	Channel Offset				
P7826	Slot 8 - Analogue SG Channel Offset - 1 Slot 8 - Analogue SG Channel Offset - 2	-2147483648 to 2147483647	0	rw, s32bit	7826 7828
SLOT8.4.1.6	Channel Full Scale				
P7830	Slot 8 - Analogue SG Channel Full Scale - 1 Slot 8 - Analogue SG Channel Full Scale - 2	0 to 65535	10000	rw, 16bit	7830 7831
SLOT8.4.1.7	Channel Sensibility				
P7832	Slot 8 - Analogue SG Channel Sensibility - 1 Slot 8 - Analogue SG Channel Sensibility - 2	0 to 255	2	rw, 8bit	7832 7833
SLOT8.4.1.8	Channel Sample Rate				
P7834	Slot 8 - Analogue SG Channel Sample Rate - 1 Slot 8 - Analogue SG Channel Sample 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	7834 7835
SLOT8.4.1.9	Channel Maximum Variation				
P7836	Slot 8 - Analogue SG Channel Maximum Variation - 1 Slot 8 - Analogue SG Channel Maximum Variation - 2	0 to 4294967295	100000	rw, 32bit	7836 7838

Parameter	Description	Range of values	Factory setting	Properties	Communication Address
SLOT8.4.1.10 P7840	Channel Discart Value Slot 8 - Analogue SG Channel Discard Value - 1 Slot 8 - Analogue SG Channel Discard Value - 2	0 = Keep 1 = Discard	0	rw, enum	7840 7841
SLOT8.4.1.11 P7842	Channel TAU Slot 8 - Analogue SG Channel Filter TAU - 1 Slot 8 - Analogue SG Channel Filter TAU - 2	0 to 65535	0	rw, 16bit	7842 7843
SLOT8.4.1.12 P7844	Channel Variation Step Slot 8 - Analogue SG Channel Variation Step - 1 Slot 8 - Analogue SG 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	7844 7845
SLOT8.4.2	Status				
SLOT8.4.2.1 P7800	Read Weight 16 Bits Slot 8 - Read Weight 16 Bits - 1 Slot 8 - Read Weight 16 Bits - 2	-32768 to 32767	-	ro, s16bit	7800 7801
SLOT8.4.2.2 P7802	Read Weight 32 Bits Slot 8 - Read Weight 32 Bits - 1 Slot 8 - Read Weight 32 Bits - 2	-2147483648 to 2147483647	-	ro, s32bit	7802 7804
SLOT8.4.2.3 P7806	SG Analogue Channel Status Slot 8 - Analogue SG Channel Status - 1 Slot 8 - Analogue SG Channel Status - 2	0 = Disable 1 = Enable	-	ro, enum	7806 7807

Table A.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.
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.



WEG Drives & Controls - Automação LTDA.
Jaraguá do Sul – SC – Brazil
Phone 55 (47) 3276-4000 – Fax 55 (47) 3276-4020
São Paulo – SP – Brazil
Phone 55 (11) 5053-2300 – Fax 55 (11) 5052-4212
automacao@weg.net
www.weg.net