

EtherCAT

RUW200-ECAT V1.07.XX

User's Manual

User's Manual

RUW200-ECAT

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SUMMARY OF REVISIONS

The information below describes the reviews made in this manual.

Version	Revision	Description
V1.07.XX	R00	First edition.
V1.07.XX	R01	General review.

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ABOUT THE MANUAL

This manual supplies the necessary information for the operation of the RUW200-ECAT remote unit using the EtherCAT protocol. This manual must be used together with the RUW200-ECAT user's manual and programming manual.

NUMERICAL REPRESENTATION

Decimal numbers are represented by means of digits without suffix. Hexadecimal numbers are represented with the letter 'h' after the number. Binary numbers are represented with the letter 'b' after the number.

IMPORTANT NOTICE ABOUT CYBERSECURITY AND COMMUNICATIONS

This product/equipment can connect and exchange information through networks and communication protocols. It has been designed and subjected to tests to ensure correct operation with other automation systems using the protocols mentioned in this manual. Therefore, it is essential that the customer understands the responsibilities in connection with information and cybersecurity when using this equipment.

Consequently, it is the exclusive obligation of the customer to adopt in-depth defense strategies and implement policies and measures to ensure the security of the system as a whole, including with regard to communications sent and received by the equipment. Among such measures, we can point out the installation of firewalls, antivirus and malware protection applications, data encryption, authentication control and physical user access.

WEG and its affiliates take no liability for damages or losses arising from cybersecurity breaches, including, but not limited to, unauthorized access, intrusion, information, or data leak and/or theft, denial-of-service attacks, or any other form of security breach. Using this product under conditions for which it was not specifically designed is not recommended and may result in damage to the product, the network, and the automation system. Thus, it is essential that the customer understand that the external intervention by third-party software applications, such as sniffers or applications with similar actions, has the potential to cause interruptions or restrictions in the functionality of the equipment.

TRADEMARKS

All other trademarks are the property of their respective holders.

1 MAIN CHARACTERISTICS

The main characteristics of the EtherCAT communication accessory of the remote unit RUW200-ECAT are listed below.

- Allows the equipment to operate as a EtherCAT slave.
- Features two Ethernet ports, enabling connection of multiple devices in sequence or in a ring topology.
- Uses the CoE protocol (*CANopen over EtherCAT*) at the application layer.
- 1 transmission PDO (TxPDO), capable of containing up to 64 objects mapped from the slave's object dictionary.
- 1 reception PDO (RxPDO), capable of containing up to 64 objects mapped from the slave's object dictionary.
- Provides acyclic data via SDO for device parameterization and configuration.
- Provides objects defined by CiA 401 specification - *Device Profile for Generic I/O Modules*.
- Supplied together with an XML file (ESI) for network master configuration.

2 OVERVIEW OF ETHERCAT

General information about the EtherCAT technology is presented below.

2.1 ETHERCAT TECHNOLOGY

EtherCAT (**E**thernet for **C**ontrol **A**utomation **T**echnology) is a Real Time Ethernet technology introduced originally in 2003 by Beckhoff. In 2007, it was integrated into the international fieldbus standards IEC 61158. The EtherCAT Technology Group (ETG) promotes EtherCAT and is responsible for its continued development.

EtherCAT communication technology is based on 100BASE-TX Ethernet physical layer. An EtherCAT bus consists of a master system and up to 65535 slave devices, connected together with standard Ethernet cabling.

In order to improve network performance, instead of sending one Ethernet package at a time to each node, EtherCAT network takes a different approach, employing "on the fly" processing hardware. The frame, containing data to several slaves, is initially sent by the master to the first slave on the network. The slave device process the incoming Ethernet frames directly, extract or insert relevant data and transfer the frame to the next EtherCAT slave device, without waiting the entire frame to be received. The last slave device in the bus segment sends the fully processed frame back, so that it is returned by the first slave to the master as a kind of response frame, which maximize the use of the full duplex Ethernet bandwidth. This approach makes data update between master and slaves really fast and deterministic, ideal for application fields like machine controls.

2.2 DEVICE PROFILES

The EtherCAT communication allows different protocols to be used in the application layer. For remote unit RUW200-ECAT, the CANopen over EtherCAT (CoE) device profile is available, where the CANopen protocol is applied to EtherCAT. Different communication objects available to CANopen are also used via EtherCAT, like Service Data Objects (SDO), Process Data Objects (PDO) and the Object Dictionary structure to manage the parameters.

3 INTERFACE DESCRIPTION

3.1 CONNECTORS

The peripheral for EtherCAT communication has two RJ45 connectors for network connection. The connector pin out follows the Fast Ethernet 100BASE-TX standard, using two pairs of cables for data transmission and reception.

The housings of the Ethernet connectors, which are normally connected to the cable shield, have connections between themselves and to the protective earth via a RC circuit.

3.2 INDICATION LEDS

The peripheral for EtherCAT communication has a LED for link/activity network indication, and two bicolor LEDs for status indication (RUN and ERR). These LEDs have the following functions and indications.

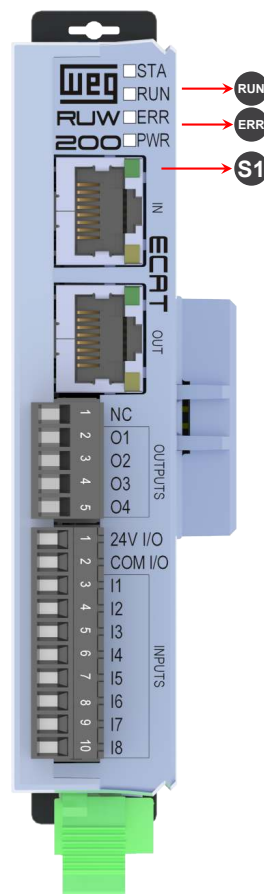


Table 3.1: LED S1 - Link/Activity

State	Description
Off	Equipment off or no link.
Green, solid	Link up and no activity.
Green, flashing	Link up and activity.

INTERFACE DESCRIPTION

Table 3.2: LED RUN

Status	Description	Comments
Alternating green/red	Running LED self-test.	Occurs during device startup.
Off	INIT.	The device is in the INIT state.
Green, blinking every 200ms	PREOP.	The device is in the PREOP state.
Green, 1-flash blink	SAFEOP.	The device is in the SAFEOP state.
Solid green	OP.	The device is in the OP state.

Table 3.3: LED ERR

Status	Description	Comments
Alternating green/red	Running LED self-test.	Occurs during device startup.
Off	No error.	The EtherCAT communication is in normal operating condition.
Red, blinking every 200ms	Invalid configuration.	General configuration error.
Red, 1-flash blink	Local error.	The slave device autonomously changed the EtherCAT state due to a local error (see ETG.1000.6). The Error Indicator bit is set to 1 in the AL Status register.
Red, 2-flash blink	EtherCAT watchdog timeout.	An application watchdog timeout has occurred.

4 NETWORK INSTALLATION

Following are recommendations related to equipment installation in an EtherCAT network. Details on the characteristics of the components used for installation can be obtained along the ETG.

4.1 CABLE

Recommended characteristics for the cable:

- Standard Ethernet cable, 100Base-TX (FastEthernet), CAT 5e.
- Shielded cable.
- Maximum length between devices: 100m.

4.2 NETWORK TOPOLOGY

To connect RUW200-ECAT remote unit in an EtherCAT network, it is necessary to observe the Ethernet connector on the device used for connection.

- The network always start by the EtherCAT master.
- The connector (IN) should always be connected to the network segment leading to the EtherCAT master.
- The connector (OUT) should always be connected to the network segment leading to other EtherCAT slaves.
- When connected in a ring topology for redundancy, the connector (OUT) of the last slave can be connected to the second port of the EtherCAT master, otherwise it should be leave disconnected.

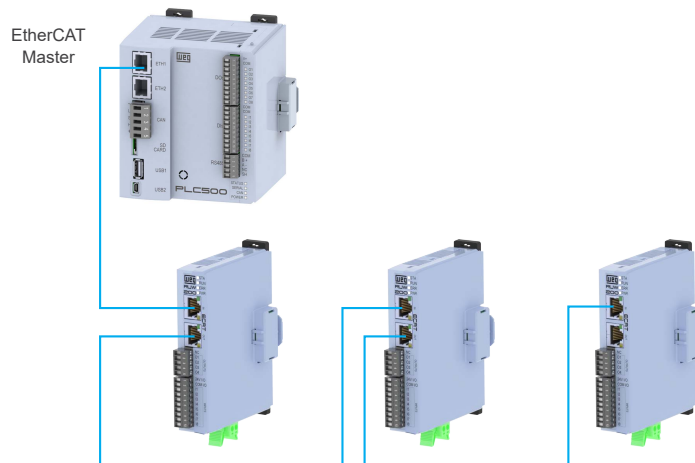


Figure 4.1: Topologia daisy chain

4.3 RECOMMENDATIONS FOR GROUNDING AND CABLE ROUTING

The correct connection with the ground decreases problems caused by interference in an industrial environment. The following are some recommendations about grounding and cable routing:

- Always use shielded twisted pair Ethernet cables and connectors with metallic casing.
- Use clamps on the main grounding point, allowing better contact surface between the cable shield and ground.
- Avoid the cable connection on multiple grounding points, especially where there are grounds with different potentials.
- Pass signal cables and communication cable in dedicated pathways. Prevent the passage of these cables next to power cables.

5 PRODUCT

Allows access to status and configuration parameters of the product.

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

P-x-y-z-w

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

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

**NOTE!**

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

**NOTE!**

Product parameters may change depending on the model.

**NOTE!**

The full list of parameters can be seen in the [Section 11 QUICK REFERENCES](#) on page 11-1.

PRODUCT

5.1 STATUS

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

5.1.1 Communication

5.1.1.1 EtherCAT

It allows viewing information about the EtherCAT protocol.

P0889: ETH - Interface Status

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

Description:

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

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

P0897: ECAT - Communication Status

Adjustable Range:	0 ... 8	Factory Setting:	0
Properties:	ro, enum		

Description:

Indicate the slave state, according to the EtherCAT state machine.

Indication	Description
0 = Inactive	Interface is inactive.
1 = INIT	EtherCAT in the initialization state, waiting configurations and commands from the master to allow data exchange via mailbox.
2 = PREOP	Initialization successful, waiting commands from the master to configure the communication and starting cyclic data exchange.
3 = Reserved	Reserved
4 = SAFEOP	Master starts cyclic data reading, but data writing is not performed.
5 ... 7 = Reserved	Reserved
8 = OP	Master runs cyclic data update for reading and writing data areas.

P0898: ECAT - ESI Version

Adjustable Range:	0.0 ... 6.5535	Factory Setting:	1.07
Properties:	ro, 32bit		

Description:

Version of the EtherCAT Slave Information (ESI) stored in the product.

5.2 CONFIGURATION

It allows accessing the product setting parameters.

5.2.1 Communication

5.2.1.1 Communication Errors

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

P0624: Action for Communication Error

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

Description:

It allows configuring the protection tripping mode for communication error.

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

6 OPERATION IN THE ETHERCAT NETWORK

Following it shows operating characteristics of the RUW200-ECAT remote unit using EtherCAT interface.

6.1 ETHERCAT COMMUNICATION ARCHITECTURE

The following figure presents the RUW200-ECAT remote unit architecture for network data exchange.

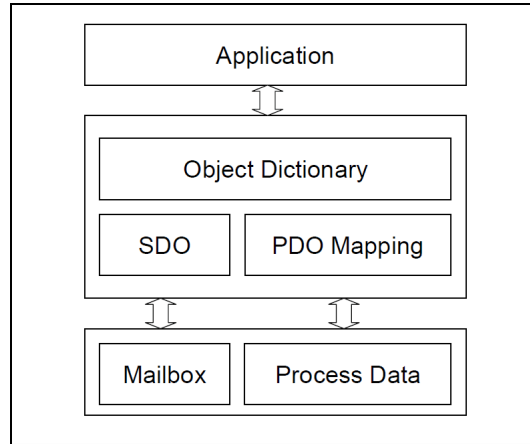


Figure 6.1: EtherCAT communication architecture

The application layer protocol used by the EtherCAT is based on CANopen DS301 protocol, called CANopen over EtherCAT (CoE). Among the main structures used in communication, it can be highlighted:

Object Dictionary

All the data exchange is based on the object dictionary, which is a list of available data for communication configuration and operation of the equipment.

PDOs

PDOs are used to define and transmit process data (cyclic data) communicated between master and slave for control and monitoring equipment.

SDO

The equipment has an SDO server that enables the exchange of acyclic data, for setting up communication and parameterization. Data exchanged via SDO utilize the mailbox structure for sending commands and receiving the response by the network master.

6.2 ETHERCAT STATE MACHINE

Every EtherCAT slave has a state machine responsible for defining the activities to be performed between master and slave. After power on, the slave goes to the startup state, and other state transitions typically occur as requested by network master.

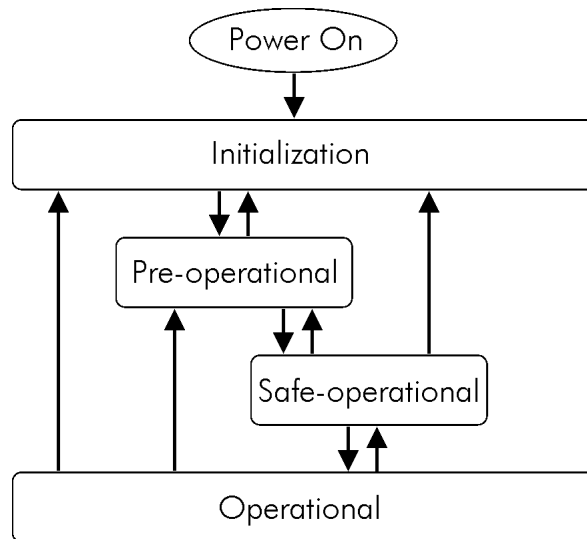


Figure 6.2: EtherCAT state machine

Table 6.1: States and transitions for EtherCAT state machine

State / Transition	Description
Initialization	■ Standard state after initialization. ■ Mailbox communication or process data exchange is not allowed.
Initialization → Pre-operational	■ Master configures logical address for slave. ■ Master configures mailbox Sync Manager. ■ Master initiates synchronizations with slaves (Distributed Clock). ■ Master requests pre-operational state.
Pre-operational	■ Mailbox communication is possible, but no process data communication.
Pre-operational → Safe-operational	■ Master configures Sync Manager and FMMU for process data. ■ Master sends commands via SDO for slave configuration, including PDO mapping. ■ Master requests safe-operational state.
Safe-operational	■ Mailbox communication is possible. ■ Slave sends input process data to master, but output data from master to slave remains with initial values.
Safe-operational → Operational	■ Master sends valid output values. ■ Master requests operational state.
Operational	■ Mailbox communication is possible. ■ Process data communication (inputs and outputs) is possible, according to PDO mapping.

6.3 SYNC MANAGERS

Sync Managers are responsible for controlling access to data sent and received over the network, and ensure data consistency. There are 4 Sync Managers, each one responsible for managing a different data type:

- Sync Manager 0: responsible for writing mailbox data.
- Sync Manager 1: responsible for reading mailbox data.

- Sync Manager 2: control access to RxPDO data. Object 1C12h is used to indicate which RxPDO this Sync Manager is associated with.
- Sync Manager 3: control access to TxPDO data. Object 1C13h is used to indicate which TxPDO this Sync Manager is associated with.

6.4 SYNCHRONIZATION MODES

Data updating is performed using a synchronization mechanism:

- SM-Synchronous: data update is based on Sync Managers 2 and 3. When a telegram is received by interface for data update, at this moment it runs the internal data update routine by the slave.



NOTE!

The minimum cycle allowed for RUW200-ECAT remote unit data updating over the network is 1ms.

6.5 PROCESS DATA - PDO

The process data (cyclic data), used to control and monitor the equipment during operation, are transmitted and received by the slave using PDOs. There are two types of PDOs:

- Receive PDO – RxPDO: receive data from the master, such as commands and references. In the RUW200-ECAT, 1 RxPDO is available.
- Transmit PDO – TxPDO: transmit data to the master, such as status information and process variables. In the RUW200-ECAT, 1 TxPDO is available.

6.5.1 PDOs Mapping

The PDO mapping defines the content transmitted by each PDO, based on the slave's object dictionary. Each PDO can contain up to 64 mapped objects. This mapping is done using object 1600h for the RxPDO and 1A00h for the TxPDO.

6.5.2 PDO Assignment

Besides mapping, the PDO must be assigned to a Sync Manager to perform the data transfer during operation. This is done through the following objects:

- 1C12h - RxPDO assign: program which RxPDO will be assigned to the Sync Manager 2, for process data reception. Must be written the number of the RxPDO object mapping (1600h) to relate the Sync Manager to the PDO.
- 1C13h - TxPDO assign: program which RxPDO will be assigned to the Sync Manager 3, for process data transmission. Must be written the number of the TxPDO object mapping (1A00h) to relate the Sync Manager to the PDO.



NOTE!

Both mapping and selection of PDOs can only be performed during the pre-operational state, before beginning the process data exchange.

6.6 MAILBOX

Besides PDOs, responsible for transmitting and receiving cyclic data, EtherCAT communication also enables the data exchange via mailbox, typically used for acyclic data exchange between master and slave.

OPERATION IN THE ETHERCAT NETWORK

Different data sets can be transmitted via mailbox. RUW200-ECAT remote unit enables the data exchange using an SDO server that responds to requests from the EtherCAT master as specified by the EtherCAT protocol.

The following services are available via the mailbox:

Table 6.2: Available Services via mailbox

Name	Description
SDO Download Normal	Write value to an object of the dictionary.
SDO Upload Normal	Read value from an object of the dictionary.
Abort SDO Transfer	Aborts execution of the service on failure/invalid data.
Get Object Dictionary List	Read the list of available objects.
Get Object Description	Gets information about an object (index).
Get Entry Description	Gets information about an object (sub-index).

6.7 ETHERCAT SLAVE INFORMATION

Each device in an EtherCAT network has a configuration file, in XML format, containing information about the slave's objects, services, and settings. This file is called the EtherCAT Slave Information (ESI).

Information such as the list of objects for communication, configuration and FMMUs Sync Managers, standard mapping for PDOs, are present in this file.

The ESI configuration file is available on the WEG website (<http://www.weg.net>).



NOTE!

It is important to note if the XML configuration file is compatible with the firmware version of RUW200-ECAT remote unit.

7 OBJECT DICTIONARY

The object dictionary represents a list containing the various equipment data that are accessible through the EtherCAT network. Based on this list, where each object is identified by a 16-bit index, all data exchange between the devices is carried out.

In addition, the objects available in this list are grouped according to the type of function they perform. Thus, the objects are arranged in the dictionary as shown in [Table 7.1 on page 7-1](#):

Table 7.1: Object dictionary groupings

Index	Objects	Description
1000h - 1FFFh	Communication objects	They are objects common to all the devices. They contain general information about the equipment and also data for the communication configuration.
2000h – 5FFFh	Manufacturer specific objects	In this range, each equipment manufacturer is free to define which data those objects will represent.
6000h – 9FFFh	Standardized device objects	This range is reserved to objects that describe the behavior of similar equipment, regardless of the manufacturer.

The other indexes that are not referred in this list are reserved for future use.



NOTE!

The XML configuration file provides the complete list of objects available in the device, as well as their properties regarding type, default values, and PDO mapping.

7.1 COMMUNICATION PROFILE - COMMUNICATION OBJECTS

The indexes from 1000h to 1FFFh in the object dictionary correspond to the part responsible for the EtherCAT network communication configuration. Those objects are common to all the devices, however only a few are obligatory. A list with the objects of this range that are supported by the remote unit RUW200-ECAT is presented in the [Table 7.2 on page 7-1](#).

Table 7.2: Object list – Communication Profile

Index	Object	Name	Type	Access
1000h	VAR	Device Type	UNSIGNED32	ro
1001h	VAR	Error Register	UNSIGNED8	ro
1008h	VAR	Device Name	STRING	ro
1009h	VAR	Manufacturer Hardware Version	STRING	ro
100Ah	VAR	Manufacturer Software Version	STRING	ro
1018h	RECORD	Identity Object	Identity	ro
10F1h	RECORD	Error Settings	-	ro
10F8h	VAR	Timestamp Object	UNSIGNED64	ro
Receive PDO Mapping Parameter				
1600h	RECORD	1st receive PDO mapping	PDO Mapping	rw
Transmit PDO Mapping Parameter				
1A00h	RECORD	1st transmit PDO mapping	PDO Mapping	rw

These objects can only be read and written via the EtherCAT network. The network master, in general, is the equipment responsible for setting up the equipment before starting the operation.

7.2 MANUFACTURER SPECIFIC OBJECTS

For indexes from 2000h to 5FFFh, each manufacture is free to define which objects will be present, and also the type and function of each one. In the case of the RUW200-ECAT, the whole list of parameters was made available in this object range. It is possible to operate the RUW200-ECAT by means of these parameters, carrying out any function that the inverter can execute. The parameters were made available starting from the

index 2000h, and by adding their Net Id to this index their position in the dictionary is obtained. To identify how the parameters are distributed in the object dictionary, refer to the [Item 11 QUICK REFERENCES on page 11-1](#).

In order to be able to program the RUW200-ECAT operation correctly via the EtherCAT network, it is necessary to know its operation through the parameters.

Refer to the RUW200-ECAT remote unit programming manual for a complete list of the parameters and their detailed description.

7.3 DEVICE PROFILE

The EtherCAT documentation also includes suggestions for standardization of certain device types. The RUW200-ECAT remote unit follows the CiA 401 - *Device Profile for Generic I/O Modules*. This document describes a set of objects that must be common for drives, regardless of the manufacturer. This makes the interaction between devices with the same function easier (as for remote I/O modules), because the data, as well the device behavior, are made available in a standardized manner.

The indexes from 6000h to 9FFFh were reserved for these objects. It is possible to operate RUW200-ECAT remote unit through the EtherCAT network, both using parameters (located from the index 2000h) as well these standardized objects.

Refer to [Item 8 CiA 401 - DEVICE PROFILE on page 8-1](#) for more details on the available objects in this range of the objects dictionary.

8 CiA 401 - DEVICE PROFILE

This item will describe the common objects for generic I/O modules, defined by the CANopen specification in the document CiA DS 401. The objects mentioned here have similar description and operation, regardless of the manufacturer of the I/O module. This makes easy interoperability and interchangeability between different devices.

The Table 8.1 shows the list of objects available for the RUW200-ECAT remote unit.

Table 8.1: Object List – Device Profile for Generic I/O Modules

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6000h	Array	Read Input 8 Bit	UINT8	ro	Yes
6100h	Array	Read Input 16 Bit	UINT16	ro	Yes
6200h	Array	Write Output 8 Bit	UINT8	rw	Yes
6300h	Array	Write Output 16 Bit	UINT16	rw	Yes
6306h	Array	Error Mode Output 16 Bit	UINT16	rw	No
6307h	Array	Error Value Output 16 Bit	UNIT16	rw	No
6401h	Array	Read Analogue Input 16 Bit	UINT16	ro	Yes
6402h	Array	Read Analogue Input 32 Bit	INT32	ro	Yes
6411h	Array	Write Analogue Output 16 Bit	INT16	rw	Yes

8.1 OBJECT 6000h – READ INPUT 8 BIT

It makes possible to read the digital inputs, that are mapped sequentially in each sub-index of the object 6000h with 8-bit size.

For instance, if the main module has 16 digital inputs, these will be mapped in sub-indexes 1 and 2. For the first expansion module with digital inputs, these will be mapped from the next sub-index on.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6000h	0	Number of Entries	UINT8	ro	No
	1	Inputs 1 to 8	UINT8	rw	Yes
	2	Inputs 9 to 16	UINT8	rw	Yes
	3	Inputs 17 to 24	UINT8	rw	Yes
	4	Inputs 25 to 32	UINT8	rw	Yes
	5	Inputs 33 to 40	UINT8	rw	Yes
	6	Inputs 41 to 48	UINT8	rw	Yes
	7	Inputs 49 to 56	UINT8	rw	Yes
	8	Inputs 57 to 64	UINT8	rw	Yes
	9	Inputs 65 to 72	UINT8	rw	Yes
	10	Inputs 73 to 80	UINT8	rw	Yes
	11	Inputs 81 to 88	UINT8	rw	Yes
	12	Inputs 89 to 96	UINT8	rw	Yes
	13	Inputs 97 to 104	UINT8	rw	Yes
	14	Inputs 105 to 112	UINT8	rw	Yes
	15	Inputs 113 to 120	UINT8	rw	Yes
	16	Inputs 121 to 128	UINT8	rw	Yes
	17	Inputs 129 to 136	UINT8	rw	Yes
	18	Inputs 137 to 144	UINT8	rw	Yes
	19	Inputs 145 to 152	UINT8	rw	Yes
	20	Inputs 153 to 160	UINT8	rw	Yes
	21	Inputs 161 to 168	UINT8	rw	Yes
	22	Inputs 169 to 176	UINT8	rw	Yes
	23	Inputs 177 to 184	UINT8	rw	Yes
	24	Inputs 185 to 192	UINT8	rw	Yes
	25	Inputs 193 to 200	UINT8	rw	Yes
	26	Inputs 201 to 208	UINT8	rw	Yes

8.2 OBJECT 6100h – READ INPUT 16 BIT

It makes possible to read the digital inputs, that are mapped sequentially in each sub-index of the object 6100h with 16-bit size.

For instance, if the main module has 16 digital inputs, these will be mapped in sub-index 1. For the first expansion module with digital inputs, these will be mapped from the next sub-index on.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6100h	0	Number of Entries	UINT8	ro	No
	1	Inputs 1 to 16	UINT8	rw	Yes
	2	Inputs 17 to 32	UINT8	rw	Yes
	3	Inputs 33 to 48	UINT8	rw	Yes
	4	Inputs 48 to 64	UINT8	rw	Yes
	5	Inputs 65 to 80	UINT8	rw	Yes
	6	Inputs 81 to 96	UINT8	rw	Yes
	7	Inputs 97 to 112	UINT8	rw	Yes
	8	Inputs 113 to 128	UINT8	rw	Yes
	9	Inputs 129 to 144	UINT8	rw	Yes
	10	Inputs 145 to 160	UINT8	rw	Yes
	11	Inputs 161 to 176	UINT8	rw	Yes
	12	Inputs 177 to 192	UINT8	rw	Yes
	13	Inputs 193 to 208	UINT8	rw	Yes



NOTE!

The objects 6000h and 6100h allow access to the same product data. Only the size of each object changes, allowing different mapping procedure.



NOTE!

For each expansion module, the inputs mapping will be aligned to a new 16-bit sub-index. For example, if the module has 24 inputs, they will be mapped into two 16-bit sub-indexes, and the last 8 bits of the second sub-index will be reserved. The next module added will have its inputs mapped to the next free sub-index.

8.3 OBJECT 6200h – WRITE OUTPUT 8 BIT

It makes possible to write the digital outputs, that are mapped sequentially in each sub-index of the object 6200h with 8-bit size.

For instance, if the main module has 16 digital outputs, these will be mapped in sub-indexes 1 and 2. For the first expansion module with digital outputs, these will be mapped from the next sub-index on.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6200h	0	Number of Entries	UINT8	ro	No
	1	Outputs 1 to 8	UINT8	rw	Yes
	2	Outputs 9 to 16	UINT8	rw	Yes
	3	Outputs 17 to 24	UINT8	rw	Yes
	4	Outputs 25 to 32	UINT8	rw	Yes
	5	Outputs 33 to 40	UINT8	rw	Yes
	6	Outputs 41 to 48	UINT8	rw	Yes
	7	Outputs 49 to 56	UINT8	rw	Yes
	8	Outputs 57 to 64	UINT8	rw	Yes
	9	Outputs 65 to 72	UINT8	rw	Yes
	10	Outputs 73 to 80	UINT8	rw	Yes
	11	Outputs 81 to 88	UINT8	rw	Yes
	12	Outputs 89 to 96	UINT8	rw	Yes
	13	Outputs 97 to 104	UINT8	rw	Yes
	14	Outputs 105 to 112	UINT8	rw	Yes
	15	Outputs 113 to 120	UINT8	rw	Yes
	16	Outputs 121 to 128	UINT8	rw	Yes
	17	Outputs 129 to 136	UINT8	rw	Yes
	18	Outputs 137 to 144	UINT8	rw	Yes
	19	Outputs 145 to 152	UINT8	rw	Yes
	20	Outputs 153 to 160	UINT8	rw	Yes
	21	Outputs 161 to 168	UINT8	rw	Yes
	22	Outputs 169 to 176	UINT8	rw	Yes
	23	Outputs 177 to 184	UINT8	rw	Yes
	24	Outputs 185 to 192	UINT8	rw	Yes
	25	Outputs 193 to 200	UINT8	rw	Yes
	26	Outputs 201 to 208	UINT8	rw	Yes

8.4 OBJECT 6300h – WRITE OUTPUT 16 BIT

It makes possible to write the digital outputs, that are mapped sequentially in each sub-index of the object 6300h with 16-bit size.

For instance, if the main module has 16 digital outputs, these will be mapped in sub-index 1. For the first expansion module with digital outputs, these will be mapped from the next sub-index on.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6300h	0	Number of Entries	UINT8	ro	No
	1	Outputs 1 to 16	UINT8	rw	Yes
	2	Outputs 17 to 32	UINT8	rw	Yes
	3	Outputs 33 to 48	UINT8	rw	Yes
	4	Outputs 48 to 64	UINT8	rw	Yes
	5	Outputs 65 to 80	UINT8	rw	Yes
	6	Outputs 81 to 96	UINT8	rw	Yes
	7	Outputs 97 to 112	UINT8	rw	Yes
	8	Outputs 113 to 128	UINT8	rw	Yes
	9	Outputs 129 to 144	UINT8	rw	Yes
	10	Outputs 145 to 160	UINT8	rw	Yes
	11	Outputs 161 to 176	UINT8	rw	Yes
	12	Outputs 177 to 192	UINT8	rw	Yes
	13	Outputs 193 to 208	UINT8	rw	Yes



NOTE!

The objects 6200h and 6300h allow access to the same product data. Only the size of each object changes, allowing different mapping procedure.

**NOTE!**

For each expansion module, the outputs mapping will be aligned to a new 16-bit sub-index. For example, if the module has 24 outputs, they will be mapped into two 16-bit sub-indexes, and the last 8 bits of the second sub-index will be reserved. The next module added will have its outputs mapped to the next free sub-index.

8.5 OBJECT 6306h – ERROR MODE OUTPUT 16 BIT

This object defines whether a digital output receives a pre-defined value (object 6307h) in case of an internal error or when the RUW200-ECAT remote unit goes to STOP MODE. Each sub-index defines a WORD (16-bit) where each bit of this WORD configures the action for an output.

- 1 - output value is pre-defined in object 6307h;
- 0 - output value maintained in case of error.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6306h	0	Number of Entries	UINT8	ro	No
	1	Outputs 1 to 16	UINT8	rw	Yes
	2	Outputs 17 to 32	UINT8	rw	Yes
	3	Outputs 33 to 48	UINT8	rw	Yes
	4	Outputs 48 to 64	UINT8	rw	Yes
	5	Outputs 65 to 80	UINT8	rw	Yes
	6	Outputs 81 to 96	UINT8	rw	Yes
	7	Outputs 97 to 112	UINT8	rw	Yes
	8	Outputs 113 to 128	UINT8	rw	Yes
	9	Outputs 129 to 144	UINT8	rw	Yes
	10	Outputs 145 to 160	UINT8	rw	Yes
	11	Outputs 161 to 176	UINT8	rw	Yes
	12	Outputs 177 to 192	UINT8	rw	Yes
	13	Outputs 193 to 208	UINT8	rw	Yes

8.6 OBJECT 6307h – ERROR VALUE OUTPUT 16 BIT

In this object, the value that the digital output should present in case of internal error or when the RUW200-ECAT remote unit goes to STOP MODE is parameterized. Each sub-Index defines a WORD (16-bit) where each bit of this WORD configures the action for a group of outputs.

- 1 - output value is 1 (on) if enabled on object 6306h;
- 0 - output value is 0 (off) if enabled on object 6306h.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6307h	0	Number of Entries	UINT8	ro	No
	1	Outputs 1 to 16	UINT8	rw	Yes
	2	Outputs 17 to 32	UINT8	rw	Yes
	3	Outputs 33 to 48	UINT8	rw	Yes
	4	Outputs 48 to 64	UINT8	rw	Yes
	5	Outputs 65 to 80	UINT8	rw	Yes
	6	Outputs 81 to 96	UINT8	rw	Yes
	7	Outputs 97 to 112	UINT8	rw	Yes
	8	Outputs 113 to 128	UINT8	rw	Yes
	9	Outputs 129 to 144	UINT8	rw	Yes
	10	Outputs 145 to 160	UINT8	rw	Yes
	11	Outputs 161 to 176	UINT8	rw	Yes
	12	Outputs 177 to 192	UINT8	rw	Yes
	13	Outputs 193 to 208	UINT8	rw	Yes

8.7 OBJECT 6401h – READ ANALOGUE INPUT 16 BIT

Each sub-index of this object has a 16-bit value of an analog input.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6401h	0	Number of Entries	INT16	ro	No
	1	Output 1	INT16	rw	Yes
	2	Output 2	INT16	rw	Yes
	3	Output 3	INT16	rw	Yes
	4	Output 4	INT16	rw	Yes
	5	Output 5	INT16	rw	Yes
	6	Output 6	INT16	rw	Yes
	7	Output 7	INT16	rw	Yes
	8	Output 8	INT16	rw	Yes
	...	...	...	...	...
	10	Output 64	INT16	rw	Yes

8.8 OBJECT 6402h – READ ANALOGUE INPUT 32 BIT

Each sub-index of this object has a 32-bit value of an analog input.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6402h	0	Number of Entries	INT32	ro	No
	1	Output 1	INT32	rw	Yes
	2	Output 2	INT32	rw	Yes
	3	Output 3	INT32	rw	Yes
	4	Output 4	INT32	rw	Yes
	5	Output 5	INT32	rw	Yes
	6	Output 6	INT32	rw	Yes
	7	Output 7	INT32	rw	Yes
	8	Output 8	INT32	rw	Yes
	...	...	...	...	...
	10	Output 64	INT32	rw	Yes

8.9 OBJECT 6411h – WRITE ANALOGUE INPUT 16 BIT

Each sub-index of this object writes a 16-bit value to an analog output.

Index	Sub-Index	Name	Type	Acess	PDO Mapping
6411h	0	Number of Entries	INT16	ro	No
	1	Output 1	INT16	rw	Yes
	2	Output 2	INT16	rw	Yes
	3	Output 3	INT16	rw	Yes
	4	Output 4	INT16	rw	Yes
	5	Output 5	INT16	rw	Yes
	6	Output 6	INT16	rw	Yes
	7	Output 7	INT16	rw	Yes
	8	Output 8	INT16	rw	Yes
	...	...	...	...	...
	10	Output 64	INT16	rw	Yes

9 STARTUP GUIDE - ETHERCAT

The following are the main steps for commissioning of RUW200-ECAT remote unit on the EtherCAT network. The steps are an example of usage. Refer to specific chapters for details on the steps.

9.1 INSTALLATION

1. Connect the cables, considering the necessary precautions for network installation, as described in [Section 4 NETWORK INSTALLATION on page 4-1](#):
 - Use shielded cable.
 - Properly ground the network equipment.
 - Avoid routing communication cables close to power cables.

9.2 CONFIGURING THE DRIVE

1. Siga las recomendaciones descritas en el manual del usuario para programar los parámetros de ajuste del equipo, relacionados con las señales de I/O, etc.
2. Programe la acción deseada para el equipo en caso de falla de comunicación mediante P0624.
3. Las demás configuraciones, como la selección de los datos para la comunicación vía EtherCAT, se realizan a través de la herramienta de configuración del maestro de la red.

9.3 MASTER CONFIGURATION

The way the network configuration is performed depends greatly on the master used and on the configuration tool. It is essential to be familiar with the tools used to carry out this task. In general, the following steps are required to configure the network.

1. Load the XML configuration file¹ into the device list of the network configuration tool.
2. Select the the remote unit RUW200-ECAT from the list of devices available in the network configurator. This can be done manually or automatically, if the tool allows it.
3. Configure the transmit and receive PDOs, as well as the data transmitted and received through these PDOs:
 - The TxPDO is associated with Sync Manager 2 (Outputs), while the RxPDO is associated with Sync Manager 3 (Inputs).
4. It is also necessary to define the data update period. The minimum value supported by the device is 1 ms.
5. The device allows the master to use an interrupt-based mode for data updating:
 - Without synchronization (SM-Synchron): for each EtherCAT telegram received, an interrupt is generated to update the process data.

9.4 COMMUNICATION STATUS

Once the network is configured and the master is programmed, it is possible to use the device LEDs and parameters to identify the states related to the communication.

- The LEDs (RUN and ERR) and Link, described in [Section 3 INTERFACE DESCRIPTION on page 3-1](#), provide information about the state of the interface and the communication.
- Parameter P0897 indicates the communication status between the device and the network master.

The network master must also provide information regarding the communication with the slave.

¹It is important to verify whether the XML configuration file is compatible with the firmware version of the the remote unit RUW200-ECAT.

9.5 OPERATION USING PROCESS DATA

Once the communication is established, the data mapped in the PDOs is automatically updated between the master and the slave. Among the main objects, we can mention:

- P1100 Slot 1 – Digital Inputs (DIs). (read).
- P1200 Slot 2 – Digital Inputs (DIs). (read).
- P1102 Slot 1 – Digital Outputs (DOs). (write).
- P1202 Slot 2 – Digital Outputs (DOs). (write).

It is important to be familiar with these parameters in order to program the master according to the application requirements.

9.6 ACCESS TO PARAMETERS – ACYCLIC MESSAGES

In addition to the communication of cyclic data (PDOs), the EtherCAT protocol also defines a type of acyclic telegram (SDOs), mainly used for asynchronous tasks such as parameterization and device configuration.

10 QUICK REFERENCE OF ALARMS AND FAULTS

Fault/Alarm	Description	Possible Causes
F083/A083: EtherCAT Offline	Indicates a failure in the cyclic data communication with the EtherCAT master. This occurs when, for some reason, after the cyclic communication between the master and the remote unit has started, this communication is interrupted.	■ Check the status of the network master. ■ Check the network installation, broken cable, or failure/poor contact in the network connections.

11 QUICK REFERENCES

Table 11.1: Parameters quick reference

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Product - Status									
Product - Status - Firmware Version/Revision/Model									
P0401	Product Model	0 = PLC200 1 = PLC201 2 = RUW200-CETH 3 = RUW200-ECAT 4 = PLC200 5 = PLC201 6 = Versión inválida	-	ro, enum	0	401	2191h	0	0
P0500	Firmware Version of the Product.	0.0 to 99.9999	-	ro, 32bit	4	500	21F4h	0	0
P0540	Bootloader Version	20.0 to 60.0	-	ro, 32bit	4	540	221Ch	0	0
P0560	Product Serial Number	0 to 4294967295	-	ro, 32bit	0	560	2230h	0	0
P0400	Number of Slots	0 to 255	-	ro, 8bit	0	400	2190h	0	0
P0402	Models (Slots) - 1 ... 8	5 = MOD3.00 - 8 AOV 6 = MOD3.10 - 8 AOV 7 = MOD7.00 - 6RE 16 = MOD1.00 - 24DI 17 = MOD1.10 - 24DO 18 = MOD1.30 - 08DO/16DI 19 = MOD1.20 - 16DO/08DI 128 = MOD2.00 - 7 AI 129 = MOD4.00 - 7 TH 130 = MOD5.00 - 4 RTD 131 = MOD6.00 - 2 SG 239 = MOD8.00 - SCW 255 = Not Connected	-	ro, enum	0	402	2192h	0 ... 8	0
P0502	Firmware Version (Slots) - 1 ... 8	0.0 to 19.99	-	ro, 16bit	2	502	21F6h	0 ... 8	0
P0412	State (Slots) - 1 ... 8	0 = Expansion OK 1 = Expansion identified but not configured 2 = Expansion not identified 3 = Expansion reset	-	ro, enum	0	412	219Ch	0 ... 8	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		4 = Configuration error 5 = Communication error 255 = Empty slot							
Product - Status - Communication									
P0889	ETH - Interface Status	Bit 0 = Link 1 Bit 1 = Link 2 Bit 2 ... 7 = Reserved	-	ro, 16bit	0	889	2379h	0	1
Product - Status - Communication - SNTP									
Product - Status - Communication - EtherCAT									
P0889	ETH - Interface Status	Bit 0 = Link 1 Bit 1 = Link 2 Bit 2 ... 7 = Reserved	-	ro, 16bit	0	889	2379h	0	1
P0897	ECAT - Communication Status	0 = Inactive 1 = INIT 2 = PREOP 3 = Reserved 4 = SAFEOP 5 ... 7 = Reserved 8 = OP	-	ro, enum	0	897	2381h	0	1
P0898	ECAT - ESI Version	0.0 to 6.5535	-	ro, 32bit	4	898	2382h	0	1
Product - Status - Inputs									
P0900	Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08	-	ro, 32bit	0	900	2384h	0	1
P0950	Counter Value - 1 ... 4	-2147483648 to 2147483647	-	ro, s32bit	0	950	23B6h	0 ... 4	1
P0970	Counter Direction - 1 ... 4	0 = Count up	-	ro, enum	0	970	23CAh	0 ... 4	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = Countdown							
Product - Status - Errors and Faults									
P0100	Last 5 faults - 1 ... 5	0 = NO ERROR 1 = RS485 TIMEOUT 2 ... 3 = RESERVED 4 = CAN BUS OFF 5 = RESERVED 6 = CAN INITIALIZATION ERROR 7 = CAN ENABLE ERROR 8 = CANOPEN NODE GUARD ERROR 9 = CANOPEN HEARTBEAT ERROR 10 = SYSTEM ERROR 11 ... 13 = INTERNAL ERROR 14 = RETENTIVE MEMORY 15 = FLASH MEMORY 50% 16 = FLASH MEMORY 100% 17 = NUMBER OF ACCESSORIES EXCEEDED 18 = INTRABUS ADDRESSING ERROR 19 = INTRABUS IDENTIFICATION ERROR 20 = INTERNAL ERROR 21 = SLOT 1 IDENTIFICATION ERROR 22 = SLOT 2 IDENTIFICATION ERROR 23 = SLOT 3 IDENTIFICATION ERROR 24 = SLOT 4 IDENTIFICATION ERROR 25 = SLOT 5 IDENTIFICATION ERROR 26 = SLOT 6 IDENTIFICATION ERROR 27 = SLOT 7 IDENTIFICATION ERROR 28 = SLOT 8 IDENTIFICATION ERROR	-	ro, enum	0	100	2064h	0 ... 5	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		29 ... 30 = INTERNAL ERROR 31 = SLOT 1 INTRABUS TIMEOUT 32 = SLOT 2 INTRABUS TIMEOUT 33 = SLOT 3 INTRABUS TIMEOUT 34 = SLOT 4 INTRABUS TIMEOUT 35 = SLOT 5 INTRABUS TIMEOUT 36 = SLOT 6 INTRABUS TIMEOUT 37 = SLOT 7 INTRABUS TIMEOUT 38 = SLOT 8 INTRABUS TIMEOUT 39 ... 40 = INTERNAL ERROR 41 = SLOT 1 INTRABUS CRC ERROR 42 = SLOT 2 INTRABUS CRC ERROR 43 = SLOT 3 INTRABUS CRC ERROR 44 = SLOT 4 INTRABUS CRC ERROR 45 = SLOT 5 INTRABUS CRC ERROR 46 = SLOT 6 INTRABUS CRC ERROR 47 = SLOT 7 INTRABUS CRC ERROR 48 = SLOT 8 INTRABUS CRC ERROR 49 ... 50 = INTERNAL ERROR 51 = SLOT 1 INTRABUS COMMAND ERROR 52 = SLOT 2 INTRABUS COMMAND ERROR 53 = SLOT 3 INTRABUS COMMAND ERROR 54 = SLOT 4 INTRABUS COMMAND ERROR							

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		55 = SLOT 5 INTRABUS COMMAND ERROR 56 = SLOT 6 INTRABUS COMMAND ERROR 57 = SLOT 7 INTRABUS COMMAND ERROR 58 = SLOT 8 INTRABUS COMMAND ERROR 59 ... 70 = INTERNAL ERROR 71 = EXTERNAL FLASH 72 = TIMEOUT MBTCP 73 = TIMEOUT SNTP 74 = LOW BATTERY 75 = SCANNER IN IDLE 76 = ETHERNET IP OFFLINE 77 = PROGRAM WATCHDOG 78 = INCOMPATIBLE PARAMETER TABLE 79 = HIGH WRITE FREQUENCY ON FLASH 80 = HIGH TEMPERATURE 81 = RTC AND RETENTIVE DATA LOST 82 = RTC ERROR 83 =							
P0105	Last 5 Alarms - 1 ... 5	0 = NO ERROR 1 = RS485 TIMEOUT 2 ... 3 = RESERVED 4 = CAN BUS OFF 5 = RESERVED 6 = CAN INITIALIZATION ERROR 7 = CAN ENABLE ERROR 8 = CANOPEN NODE GUARD ERROR 9 = CANOPEN HEARTBEAT ERROR 10 = SYSTEM ERROR 11 ... 13 = INTERNAL ERROR 14 = RETENTIVE MEMORY 15 = FLASH MEMORY 50% 16 = FLASH MEMORY 100%	-	ro, enum	0	105	2069h	0 ... 5	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		17 = NUMBER OF ACCESSORIES EXCEEDED 18 = INTRABUS ADDRESSING ERROR 19 = INTRABUS IDENTIFICATION ERROR 20 = INTERNAL ERROR 21 = SLOT 1 IDENTIFICATION ERROR 22 = SLOT 2 IDENTIFICATION ERROR 23 = SLOT 3 IDENTIFICATION ERROR 24 = SLOT 4 IDENTIFICATION ERROR 25 = SLOT 5 IDENTIFICATION ERROR 26 = SLOT 6 IDENTIFICATION ERROR 27 = SLOT 7 IDENTIFICATION ERROR 28 = SLOT 8 IDENTIFICATION ERROR 29 ... 30 = INTERNAL ERROR 31 = SLOT 1 INTRABUS TIMEOUT 32 = SLOT 2 INTRABUS TIMEOUT 33 = SLOT 3 INTRABUS TIMEOUT 34 = SLOT 4 INTRABUS TIMEOUT 35 = SLOT 5 INTRABUS TIMEOUT 36 = SLOT 6 INTRABUS TIMEOUT 37 = SLOT 7 INTRABUS TIMEOUT 38 = SLOT 8 INTRABUS TIMEOUT 39 ... 40 = INTERNAL ERROR 41 = SLOT 1 INTRABUS CRC ERROR							

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		42 = SLOT 2 INTRABUS CRC ERROR 43 = SLOT 3 INTRABUS CRC ERROR 44 = SLOT 4 INTRABUS CRC ERROR 45 = SLOT 5 INTRABUS CRC ERROR 46 = SLOT 6 INTRABUS CRC ERROR 47 = SLOT 7 INTRABUS CRC ERROR 48 = SLOT 8 INTRABUS CRC ERROR 49 ... 50 = INTERNAL ERROR 51 = SLOT 1 INTRABUS COMMAND ERROR 52 = SLOT 2 INTRABUS COMMAND ERROR 53 = SLOT 3 INTRABUS COMMAND ERROR 54 = SLOT 4 INTRABUS COMMAND ERROR 55 = SLOT 5 INTRABUS COMMAND ERROR 56 = SLOT 6 INTRABUS COMMAND ERROR 57 = SLOT 7 INTRABUS COMMAND ERROR 58 = SLOT 8 INTRABUS COMMAND ERROR 59 ... 70 = INTERNAL ERROR 71 = EXTERNAL FLASH 72 = TIMEOUT MBTCP 73 = TIMEOUT SNTP 74 = LOW BATTERY 75 = SCANNER IN IDLE 76 = ETHERNET IP OFFLINE 77 = PROGRAM WATCHDOG 78 = INCOMPATIBLE PARAMETER TABLE 79 = HIGH WRITE FREQUENCY ON FLASH 80 = HIGH TEMPERATURE							

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		81 = RTC AND RETENTIVE DATA LOST 82 = RTC ERROR 83 =							
Product - Status - Program									
P0099	Program Status	0 = Stopped 1 = Running 2 = No program 3 = Invalid 4 = Installing	-	ro, enum	0	99	2063h	0	0
Product - Status - Program - Counter/Scan Cycle									
P0700	Counter 100us	0 to 4294967295	-	ro, 32bit	0	700	22BCh	0	1
P0702	Scan Cycle	0.0 to 6553.5 ms	-	ro, 16bit	1	702	22BEh	0	1
P0703	Minimum Scan Cycle	0.0 to 6553.5 ms	-	ro, 16bit	1	703	22BFh	0	0
P0704	Maximum Scan Cycle	0.0 to 6553.5 ms	-	ro, 16bit	1	704	22C0h	0	0
Product - Status - Watchdog									
P0050	System error: Code	0 to 65535	-	ro, 32bit	0	50	2032h	0	0
P0052	System error - Data - 1 ... 17	0 to 4294967295	-	ro, 32bit	0	52	2034h	0 ... 17	0
P0086	System error - Date/Time	0 to 4294967295	-	ro, date and time epoch	0	86	2056h	0	0
Product - Status - Date and time									
P0192	Date/Hour	0 to 4294967295	-	ro, date and time epoch	0	192	20C0h	0	0
Product - Configuration									
Product - Configuration - Communication									
Product - Configuration - Communication - Communication Errors									
P0624	Action for Communication Error	0 = Alarm 1 = Fault	0	rw, enum	0	624	2270h	0	0
Product - Configuration - Inputs / Outputs									
P0902	Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04	0	rw, 32bit	0	902	2386h	0	1
P0904	Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	904	2388h	0	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P0906	Digital Outputs Error Value	0 to 4294967295	0	rw, 32bit	0	906	238Ah	0	0
P0908	Update I/Os in stop	Bit 0 = Select	0	rw, 16bit	0	908	238Ch	0	0
P0909	Output behavior in stop	0 = Force outputs to the default value 1 = Keep the actual values	0	rw, enum	0	909	238Dh	0	0
P0910	Quick output settings - 1 ... 4	0 = Digital output (DO) 1 = PWM	0	rw, enum	0	910	238Eh	0 ... 4	0
P0920	PWM frequency - 1 ... 4	0 to 300000	0	rw, 32bit	0	920	2398h	0 ... 4	1
P0930	PWM pulse width - 1 ... 4	0 to 1000	0	rw, 16bit	0	930	23A2h	0 ... 4	1
P0940	Counter 1 / DI1 - DI2	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	940	23ACh	0	0
P0941	Counter 2 / DI3 - DI4	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	941	23ADh	0	0
P0942	Counter 3 / DI5 - DI6	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	942	23AEh	0	0
P0943	Counter 4 / DI7 - DI8	0 = Digital Inputs 1 = Quadrature 2 = Pulse and Direction 3 = Counter and digital input	0	rw, enum	0	943	23AFh	0	0
P0948	Counter - Reverse direction	Bit 0 = Counter 1	0	rw, 16bit	0	948	23B4h	0	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 1 = Counter 2 Bit 2 = Counter 3 Bit 3 = Counter 4							
P0979	Resets Counter	Bit 0 = Counter 1 Bit 1 = Counter 2 Bit 2 = Counter 3 Bit 3 = Counter 4	0	rw, 16bit	0	979	23D3h	0	0
Product - Configuration - Flash									
P0204	Load parameters	0 = External Flash Memory 1 = Save Parameters to Flash 2 = It loads Parameters from Flash 3 = Restart product 4 = It loads Factory Settings 5 = It Resets the Expansions	0	rw, enum	0	204	20CCh	0	0
Product - Configuration - Clear Errors									
P0200	Clear Errors	0 to 255	0	rw, 8bit	0	200	20C8h	0	0
Product - Configuration - Date and time									
P0194	Set Date/Time	0 to 4294967295	1704070861	rw, date and time epoch	0	194	20C2h	0	0
P0196	Time Zone	0 = UTC-12:00 1 = UTC-11:30 2 = UTC-11:00 3 = UTC-10:30 4 = UTC-10:00 5 = UTC-09:30 6 = UTC-09:00 7 = UTC-08:30 8 = UTC-08:00 9 = UTC-07:30 10 = UTC-07:00 11 = UTC-06:30 12 = UTC-06:00 13 = UTC-05:30 14 = UTC-05:00 15 = UTC-04:30	24	rw, enum	0	196	20C4h	0	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		16 = UTC-04:00 17 = UTC-03:30 18 = UTC-03:00 19 = UTC-02:30 20 = UTC-02:00 21 = UTC-01:30 22 = UTC-01:00 23 = UTC-00:30 24 = UTC+00:00 25 = UTC+00:30 26 = UTC+01:00 27 = UTC+01:30 28 = UTC+02:00 29 = UTC+02:30 30 = UTC+03:00 31 = UTC+03:30 32 = UTC+04:00 33 = UTC+04:30 34 = UTC+05:00 35 = UTC+05:30 36 = UTC+06:00 37 = UTC+06:30 38 = UTC+07:00 39 = UTC+07:30 40 = UTC+08:00 41 = UTC+08:30 42 = UTC+09:00 43 = UTC+09:30 44 = UTC+10:00 45 = UTC+10:30 46 = UTC+11:00 47 = UTC+11:30 48 = UTC+12:00 49 = UTC+12:30 50 = UTC+13:00 51 = UTC+13:30 52 = UTC+14:00							
P0190	Disable RTC	Bit 0 = Select	0	rw, 16bit	0	190	20BEh	0	0
Product - User									

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P0800	User Parameter - 1 ... 20	-2147483648 to 2147483647	0	rw, s32bit	0	800	2320h	0 ... 20	1
Slot 1 - Digital Input/Output									
Slot 1 - Digital Input/Output - Digital Outputs (DOs)									
P1102	Slot 1 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1102	244Eh	0	1
Slot 1 - Digital Input/Output - Digital Inputs (DIs)									
P1100	Slot 1 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09	-	ro, 32bit	0	1100	244Ch	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24							
Slot 1 - Digital Input/Output - Configuration									
P1104	Slot 1 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1104	2450h	0	0
P1106	Slot 1 - Error Value	0 to 4294967295	0	rw, 32bit	0	1106	2452h	0	0
Slot 1 - Analog Input (AI, TH, RTD)									
Slot 1 - Analog Input (AI, TH, RTD) - Configuration									
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3135	Slot 1 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3135	2C3Fh	0 ... 7	0
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3142	Slot 1 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3142	2C46h	0 ... 7	0
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3149	Slot 1 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C	0	rw, enum	0	3149	2C4Dh	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K							
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3156	Slot 1 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3156	2C54h	0 ... 7	0
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel filter									
P3163	Slot 1 - Filter of the Analog Input Channel - 1 ... 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3163	2C5Bh	0 ... 7	0
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain									
P3170	Slot 1 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3170	2C62h	0 ... 7	0
Slot 1 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3178	Slot 1 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3178	2C6Ah	0 ... 7	0
Slot 1 - Analog Input (AI, TH, RTD) - Status									
Slot 1 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									
P3100	Slot 1 - 16-bit analog input - 1 ... 7	-32768 to 32767	-	ro, s16bit	0	3100	2C1Ch	0 ... 7	1
Slot 1 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status									
P3107	Slot 1 - Analog Channel Status - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	0	3107	2C23h	0 ... 7	1
Slot 1 - Analog Output									
Slot 1 - Analog Output - Configuration									
Slot 1 - Analog Output - Configuration - Error Mode									
P5108	Slot 1 - Analog Output Error Mode - 1 ... 8	0 to 255	0	rw, 8bit	0	5108	33F4h	0 ... 8	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 1 - Analog Output - Configuration - Error Value									
P5116	Slot 1 - Analog Output Error Value - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5116	33FCh	0 ... 8	0
Slot 1 - Analog Output - Configuration - Channel Gain									
P5132	Slot 1 - Analog Output Channel Gain - 1 ... 8	0 to 65535	1000	rw, 16bit	0	5132	340Ch	0 ... 8	0
Slot 1 - Analog Output - Configuration - Channel Offset									
P5140	Slot 1 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5140	3414h	0 ... 8	0
Slot 1 - Analog Output - 16-Bit Analog Output Value									
P5100	Slot 1 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5100	33ECh	0 ... 8	1
Slot 1 - Analog input (SG)									
Slot 1 - Analog input (SG) - Configuration									
Slot 1 - Analog input (SG) - Configuration - Channel Enable									
P7118	Slot 1 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7118	3BCEh	0 ... 2	0
Slot 1 - Analog input (SG) - Configuration - Channel Unit									
P7120	Slot 1 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7120	3BD0h	0 ... 2	0
Slot 1 - Analog input (SG) - Configuration - Channel filter									
P7122	Slot 1 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7122	3BD2h	0 ... 2	0
Slot 1 - Analog input (SG) - Configuration - Channel Gain									
P7124	Slot 1 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7124	3BD4h	0 ... 2	0
Slot 1 - Analog input (SG) - Configuration - Channel Offset									
P7126	Slot 1 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7126	3BD6h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P7102	Slot 1 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7102	3BBEh	0 ... 2	1
Slot 1 - Analog input (SG) - Status - SG Analog Channel Status									
P7106	Slot 1 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7106	3BC2h	0 ... 2	1
Slot 1 - Starter manager (SCW)									
Slot 1 - Starter manager (SCW) - Status									
Slot 1 - Starter manager (SCW) - Status - Product Information									
P1100	Slot 1 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1100	244Ch	0	1
P9102	Slot1 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9102	438Eh	0	1
Slot 1 - Starter manager (SCW) - Status - Starters									
P9110	Slot1 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9110	4396h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9111	Slot1 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9111	4397h	0	1
P9112	Slot1 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9112	4398h	0	1
P9113	Slot1 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9113	4399h	0	1
P9114	Slot1 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9114	439Ah	0	1
P9115	Slot1 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9115	439Bh	0	1
P9116	Slot1 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9116	439Ch	0	1
P9117	Slot1 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9117	439Dh	0	1
P9118	Slot1 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9118	439Eh	0	1
P9119	Slot1 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9119	439Fh	0	1
P9120	Slot1 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9120	43A0h	0	1
P9121	Slot1 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9121	43A1h	0	1
P9122	Slot1 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9122	43A2h	0	1
P9123	Slot1 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9123	43A3h	0	1
P9124	Slot1 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9124	43A4h	0	1
P9125	Slot1 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9125	43A5h	0	1
P9130	Slot1 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9130	43AAh	0	1
P9132	Slot1 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9132	43ACh	0	1
P9134	Slot1 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9134	43AEh	0	1
P9136	Slot1 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9136	43B0h	0	1
P9138	Slot1 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9138	43B2h	0	1
P9140	Slot1 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9140	43B4h	0	1
P9142	Slot1 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9142	43B6h	0	1
P9144	Slot1 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9144	43B8h	0	1
P9160	Slot1 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9160	43C8h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9161	Slot1 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9161	43C9h	0	1
P9162	Slot1 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9162	43CAh	0	1
P9163	Slot1 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9163	43CBh	0	1
P9164	Slot1 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9164	43CCh	0	1
P9165	Slot1 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9165	43CDh	0	1
P9166	Slot1 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9166	43CEh	0	1
P9167	Slot1 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9167	43CFh	0	1
Slot 1 - Starter manager (SCW) - Status - Errors and Alarms									
P9170	Slot1 - P1 - Last Error	0 = No Error	-	ro, enum	0	9170	43D2h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor							
P9171	Slot1 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9171	43D3h	0	1
P9172	Slot1 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9172	43D4h	0	1
P9173	Slot1 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9173	43D5h	0	1
P9175	Slot1 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9175	43D7h	0	1
P9176	Slot1 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9176	43D8h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9177	Slot1 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9177	43D9h	0	1
P9178	Slot1 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9178	43DAh	0	1
Slot 1 - Starter manager (SCW) - Configurations									
Slot 1 - Starter manager (SCW) - Configurations - Starters									
P9180	Slot1 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9180	43DCh	0	1
P9181	Slot1 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9181	43DDh	0	1
P9182	Slot1 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9182	43DEh	0	1
P9183	Slot1 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9183	43DFh	0	1
P9185	Slot1 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9185	43E1h	0	1
P9186	Slot1 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9186	43E2h	0	1
P9187	Slot1 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9187	43E3h	0	1
P9188	Slot1 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9188	43E4h	0	1
P9103	Slot1 - Factory Reset	0 to 65535	0	rw, 16bit	0	9103	438Fh	0	0
Slot 1 - Starter manager (SCW) - Configurations - Counters									
P9150	Slot1 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9150	43BEh	0	1
P9151	Slot1 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9151	43BFh	0	1
P9152	Slot1 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9152	43C0h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9153	Slot1 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9153	43C1h	0	1
P9154	Slot1 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9154	43C2h	0	1
P9155	Slot1 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9155	43C3h	0	1
P9156	Slot1 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9156	43C4h	0	1
P9157	Slot1 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9157	43C5h	0	1
P9158	Slot1 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9158	43C6h	0	1
Slot 1 - Starter manager (SCW) - Configurations - Commands									
P9190	Slot1 - Direct Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9190	43E6h	0	1
P9191	Slot1 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9191	43E7h	0	1
P9192	Slot1 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9192	43E8h	0	1
P1102	Slot 1 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09	0	rw, 32bit	0	1102	244Eh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24							
Slot 2 - Digital Input/Output									
Slot 2 - Digital Input/Output - Digital Outputs (DOs)									
P1202	Slot 2 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22	0	rw, 32bit	0	1202	24B2h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 22 = DO23 Bit 23 = DO24							
Slot 2 - Digital Input/Output - Digital Inputs (DIs)									
P1200	Slot 2 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1200	24B0h	0	1
Slot 2 - Digital Input/Output - Configuration									
P1204	Slot 2 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1204	24B4h	0	0
P1206	Slot 2 - Error Value	0 to 4294967295	0	rw, 32bit	0	1206	24B6h	0	0
Slot 2 - Analog Input (AI, TH, RTD)									
Slot 2 - Analog Input (AI, TH, RTD) - Configuration									
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3235	Slot 2 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive	1	rw, enum	0	3235	2CA3h	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv							
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3242	Slot 2 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3242	2CAAh	0 ... 7	0
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3249	Slot 2 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3249	2CB1h	0 ... 7	0
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3256	Slot 2 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3256	2CB8h	0 ... 7	0
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel filter									
P3263	Slot 2 - Filter of the Analog Input Channel - 1 ... 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3263	2CBFh	0 ... 7	0
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain									
P3270	Slot 2 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3270	2CC6h	0 ... 7	0
Slot 2 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3278	Slot 2 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3278	2CCEh	0 ... 7	0
Slot 2 - Analog Input (AI, TH, RTD) - Status									
Slot 2 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P7222	Slot 2 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7222	3C36h	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Channel Gain									
P7224	Slot 2 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7224	3C38h	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Channel Offset									
P7226	Slot 2 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7226	3C3Ah	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Channel Full Scale									
P7230	Slot 2 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7230	3C3Eh	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Channel Sensitivity									
P7232	Slot 2 - Analog Channel Sensitivity - 1 ... 2	0 to 255	2	rw, 8bit	0	7232	3C40h	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Channel Sampling Rate									
P7234	Slot 2 - Analog Channel Sampling Rate - 1 ... 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) 7 = 214.64 SPS (4.66 ms)	4	rw, enum	0	7234	3C42h	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Maximum Channel Variation									
P7236	Slot 2 - Maximum Analog Channel Variation - 1 ... 2	0 to 4294967295	100000	rw, 32bit	0	7236	3C44h	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value									
P7240	Slot 2 - Analog Channel Discard Value - 1 ... 2	0 = Maintain 1 = Discard	0	rw, enum	0	7240	3C48h	0 ... 2	0
Slot 2 - Analog input (SG) - Configuration - Filter Time Constant									
P7242	Slot 2 - Low Pass Filter - 1 ... 2	0 to 65535	0	rw, 16bit	0	7242	3C4Ah	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 2 - Analog input (SG) - Configuration - Channel Variation Step									
P7244	Slot 2 - Analog Channel Variation Step - 1 ... 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7244	3C4Ch	0 ... 2	0
Slot 2 - Analog input (SG) - Status									
Slot 2 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit									
P7200	Slot 2 - Weight (g, kg, t) 16 Bit - 1 ... 2	-32768 to 32767	-	ro, s16bit	0	7200	3C20h	0 ... 2	1
Slot 2 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit									
P7202	Slot 2 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7202	3C22h	0 ... 2	1
Slot 2 - Analog input (SG) - Status - SG Analog Channel Status									
P7206	Slot 2 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7206	3C26h	0 ... 2	1
Slot 2 - Starter manager (SCW)									
Slot 2 - Starter manager (SCW) - Status									
Slot 2 - Starter manager (SCW) - Status - Product Information									
P1200	Slot 2 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15	-	ro, 32bit	0	1200	24B0h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24							
P9202	Slot2 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9202	43F2h	0	1
Slot 2 - Starter manager (SCW) - Status - Starters									
P9210	Slot2 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9210	43FAh	0	1
P9211	Slot2 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9211	43FBh	0	1
P9212	Slot2 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9212	43FCh	0	1
P9213	Slot2 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9213	43FDh	0	1
P9214	Slot2 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9214	43FEh	0	1
P9215	Slot2 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9215	43FFh	0	1
P9216	Slot2 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9216	4400h	0	1
P9217	Slot2 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9217	4401h	0	1
P9218	Slot2 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9218	4402h	0	1
P9219	Slot2 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9219	4403h	0	1
P9220	Slot2 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9220	4404h	0	1
P9221	Slot2 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9221	4405h	0	1
P9222	Slot2 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9222	4406h	0	1
P9223	Slot2 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9223	4407h	0	1
P9224	Slot2 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9224	4408h	0	1
P9225	Slot2 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9225	4409h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9230	Slot2 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9230	440Eh	0	1
P9232	Slot2 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9232	4410h	0	1
P9234	Slot2 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9234	4412h	0	1
P9236	Slot2 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9236	4414h	0	1
P9238	Slot2 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9238	4416h	0	1
P9240	Slot2 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9240	4418h	0	1
P9242	Slot2 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9242	441Ah	0	1
P9244	Slot2 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9244	441Ch	0	1
P9260	Slot2 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9260	442Ch	0	1
P9261	Slot2 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9261	442Dh	0	1
P9262	Slot2 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9262	442Eh	0	1
P9263	Slot2 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9263	442Fh	0	1
P9264	Slot2 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9264	4430h	0	1
P9265	Slot2 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9265	4431h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9266	Slot2 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9266	4432h	0	1
P9267	Slot2 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9267	4433h	0	1
Slot 2 - Starter manager (SCW) - Status - Errors and Alarms									
P9270	Slot2 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9270	4436h	0	1
P9271	Slot2 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9271	4437h	0	1
P9272	Slot2 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9272	4438h	0	1
P9273	Slot2 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened	-	ro, enum	0	9273	4439h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		4 = Transparent Mode 5 = Wrong Contactor							
P9275	Slot2 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9275	443Bh	0	1
P9276	Slot2 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9276	443Ch	0	1
P9277	Slot2 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9277	443Dh	0	1
P9278	Slot2 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9278	443Eh	0	1
Slot 2 - Starter manager (SCW) - Configurations									
Slot 2 - Starter manager (SCW) - Configurations - Starters									
P9280	Slot2 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9280	4440h	0	1
P9281	Slot2 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9281	4441h	0	1
P9282	Slot2 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9282	4442h	0	1
P9283	Slot2 - P4 - Operation Mode		0	rw, 8bit	0	9283	4443h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		0 = Starter 1 = Transparent							
P9285	Slot2 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9285	4445h	0	1
P9286	Slot2 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9286	4446h	0	1
P9287	Slot2 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9287	4447h	0	1
P9288	Slot2 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9288	4448h	0	1
P9203	Slot2 - Factory Reset	0 to 65535	0	rw, 16bit	0	9203	43F3h	0	1
Slot 2 - Starter manager (SCW) - Configurations - Counters									
P9250	Slot2 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9250	4422h	0	1
P9251	Slot2 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9251	4423h	0	1
P9252	Slot2 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9252	4424h	0	1
P9253	Slot2 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9253	4425h	0	1
P9254	Slot2 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9254	4426h	0	1
P9255	Slot2 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9255	4427h	0	1
P9256	Slot2 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9256	4428h	0	1
P9257	Slot2 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9257	4429h	0	1
P9258	Slot2 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9258	442Ah	0	1
Slot 2 - Starter manager (SCW) - Configurations - Commands									
P9290	Slot2 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9290	444Ah	0	1
P9291	Slot2 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9291	444Bh	0	1
P9292	Slot2 - Stop Command	Bit 0 = Starter 1 - turn off	0	rw, 16bit	0	9292	444Ch	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off							
P1202	Slot 2 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1202	24B2h	0	1
Slot 3 - Digital Input/Output									
Slot 3 - Digital Input/Output - Digital Outputs (DOs)									
P1302	Slot 3 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08	0	rw, 32bit	0	1302	2516h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24							
Slot 3 - Digital Input/Output - Digital Inputs (DIs)									
P1300	Slot 3 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22	-	ro, 32bit	0	1300	2514h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 22 = DI23 Bit 23 = DI24							
Slot 3 - Digital Input/Output - Configuration									
P1304	Slot 3 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1304	2518h	0	0
P1306	Slot 3 - Error Value	0 to 4294967295	0	rw, 32bit	0	1306	251Ah	0	0
Slot 3 - Analog Input (AI, TH, RTD)									
Slot 3 - Analog Input (AI, TH, RTD) - Configuration									
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3335	Slot 3 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3335	2D07h	0 ... 7	0
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3342	Slot 3 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3342	2D0Eh	0 ... 7	0
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3349	Slot 3 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3349	2D15h	0 ... 7	0
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3356	Slot 3 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3356	2D1Ch	0 ... 7	0
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel filter									
P3363	Slot 3 - Filter of the Analog Input Channel - 1 ... 7	0 = No Filter	4	rw, enum	0	3363	2D23h	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values							
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain									
P3370	Slot 3 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3370	2D2Ah	0 ... 7	0
Slot 3 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3378	Slot 3 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3378	2D32h	0 ... 7	0
Slot 3 - Analog Input (AI, TH, RTD) - Status									
Slot 3 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									
P3300	Slot 3 - 16-bit analog input - 1 ... 7	-32768 to 32767	-	ro, s16bit	0	3300	2CE4h	0 ... 7	1
Slot 3 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status									
P3307	Slot 3 - Analog Channel Status - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	0	3307	2CEBh	0 ... 7	1
Slot 3 - Analog Output									
Slot 3 - Analog Output - Configuration									
Slot 3 - Analog Output - Configuration - Error Mode									
P5308	Slot 3 - Analog Output Error Mode - 1 ... 8	0 to 255	0	rw, 8bit	0	5308	34BCh	0 ... 8	0
Slot 3 - Analog Output - Configuration - Error Value									
P5316	Slot 3 - Analog Output Error Value - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5316	34C4h	0 ... 8	0
Slot 3 - Analog Output - Configuration - Channel Gain									
P5332	Slot 3 - Analog Output Channel Gain - 1 ... 8	0 to 65535	1000	rw, 16bit	0	5332	34D4h	0 ... 8	0
Slot 3 - Analog Output - Configuration - Channel Offset									
P5340	Slot 3 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5340	34DCh	0 ... 8	0
Slot 3 - Analog Output - 16-Bit Analog Output Value									
P5300	Slot 3 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5300	34B4h	0 ... 8	1
Slot 3 - Analog input (SG)									

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 3 - Analog input (SG) - Configuration									
Slot 3 - Analog input (SG) - Configuration - Channel Enable									
P7318	Slot 3 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7318	3C96h	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Unit									
P7320	Slot 3 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7320	3C98h	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel filter									
P7322	Slot 3 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7322	3C9Ah	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Gain									
P7324	Slot 3 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7324	3C9Ch	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Offset									
P7326	Slot 3 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7326	3C9Eh	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Full Scale									
P7330	Slot 3 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7330	3CA2h	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Sensitivity									
P7332	Slot 3 - Analog Channel Sensitivity - 1 ... 2	0 to 255	2	rw, 8bit	0	7332	3CA4h	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Sampling Rate									
P7334	Slot 3 - Analog Channel Sampling Rate - 1 ... 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)	4	rw, enum	0	7334	3CA6h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		5 = 53.66 SPS (18.64 ms) 6 = 107.32 SPS (9.32 ms) 7 = 214.64 SPS (4.66 ms)							
Slot 3 - Analog input (SG) - Configuration - Maximum Channel Variation									
P7336	Slot 3 - Maximum Analog Channel Variation - 1 ... 2	0 to 4294967295	100000	rw, 32bit	0	7336	3CA8h	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value									
P7340	Slot 3 - Analog Channel Discard Value - 1 ... 2	0 = Maintain 1 = Discard	0	rw, enum	0	7340	3CACH	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Filter Time Constant									
P7342	Slot 3 - Low Pass Filter - 1 ... 2	0 to 65535	0	rw, 16bit	0	7342	3CAEh	0 ... 2	0
Slot 3 - Analog input (SG) - Configuration - Channel Variation Step									
P7344	Slot 3 - Analog Channel Variation Step - 1 ... 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7344	3CB0h	0 ... 2	0
Slot 3 - Analog input (SG) - Status									
Slot 3 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit									
P7300	Slot 3 - Weight (g, kg, t) 16 Bit - 1 ... 2	-32768 to 32767	-	ro, s16bit	0	7300	3C84h	0 ... 2	1
Slot 3 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit									
P7302	Slot 3 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7302	3C86h	0 ... 2	1
Slot 3 - Analog input (SG) - Status - SG Analog Channel Status									
P7306	Slot 3 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7306	3C8Ah	0 ... 2	1
Slot 3 - Starter manager (SCW)									
Slot 3 - Starter manager (SCW) - Status									
Slot 3 - Starter manager (SCW) - Status - Product Information									
P1300	Slot 3 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02	-	ro, 32bit	0	1300	2514h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		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							
P9302	Slot3 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9302	4456h	0	1
Slot 3 - Starter manager (SCW) - Status - Starters									
P9310	Slot3 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9310	445Eh	0	1
P9311	Slot3 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9311	445Fh	0	1
P9312	Slot3 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9312	4460h	0	1
P9313	Slot3 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9313	4461h	0	1
P9314	Slot3 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9314	4462h	0	1
P9315	Slot3 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9315	4463h	0	1
P9316	Slot3 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9316	4464h	0	1
P9317	Slot3 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9317	4465h	0	1
P9318	Slot3 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9318	4466h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9319	Slot3 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9319	4467h	0	1
P9320	Slot3 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9320	4468h	0	1
P9321	Slot3 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9321	4469h	0	1
P9322	Slot3 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9322	446Ah	0	1
P9323	Slot3 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9323	446Bh	0	1
P9324	Slot3 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9324	446Ch	0	1
P9325	Slot3 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9325	446Dh	0	1
P9330	Slot3 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9330	4472h	0	1
P9332	Slot3 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9332	4474h	0	1
P9334	Slot3 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9334	4476h	0	1
P9336	Slot3 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9336	4478h	0	1
P9338	Slot3 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9338	447Ah	0	1
P9340	Slot3 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9340	447Ch	0	1
P9342	Slot3 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9342	447Eh	0	1
P9344	Slot3 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9344	4480h	0	1
P9360	Slot3 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9360	4490h	0	1
P9361	Slot3 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9361	4491h	0	1
P9362	Slot3 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9362	4492h	0	1
P9363	Slot3 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error	-	ro, 16bit	0	9363	4493h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 2 = Active Alarm							
P9364	Slot3 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9364	4494h	0	1
P9365	Slot3 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9365	4495h	0	1
P9366	Slot3 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9366	4496h	0	1
P9367	Slot3 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9367	4497h	0	1
Slot 3 - Starter manager (SCW) - Status - Errors and Alarms									
P9370	Slot3 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9370	449Ah	0	1
P9371	Slot3 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9371	449Bh	0	1
P9372	Slot3 - P3 - Last Error		-	ro, enum	0	9372	449Ch	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor							
P9373	Slot3 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9373	449Dh	0	1
P9375	Slot3 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9375	449Fh	0	1
P9376	Slot3 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9376	44A0h	0	1
P9377	Slot3 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9377	44A1h	0	1
P9378	Slot3 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9378	44A2h	0	1
Slot 3 - Starter manager (SCW) - Configurations									
Slot 3 - Starter manager (SCW) - Configurations - Starters									
P9380	Slot3 - P1 - Operation Mode		0	rw, 8bit	0	9380	44A4h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		0 = Starter 1 = Transparent							
P9381	Slot3 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9381	44A5h	0	1
P9382	Slot3 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9382	44A6h	0	1
P9383	Slot3 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9383	44A7h	0	1
P9385	Slot3 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9385	44A9h	0	1
P9386	Slot3 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9386	44AAh	0	1
P9387	Slot3 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9387	44ABh	0	1
P9388	Slot3 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9388	44ACh	0	1
P9303	Slot3 - Factory Reset	0 to 65535	0	rw, 16bit	0	9303	4457h	0	1
Slot 3 - Starter manager (SCW) - Configurations - Counters									
P9350	Slot3 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9350	4486h	0	1
P9351	Slot3 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9351	4487h	0	1
P9352	Slot3 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9352	4488h	0	1
P9353	Slot3 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9353	4489h	0	1
P9354	Slot3 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9354	448Ah	0	1
P9355	Slot3 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9355	448Bh	0	1
P9356	Slot3 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9356	448Ch	0	1
P9357	Slot3 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9357	448Dh	0	1
P9358	Slot3 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9358	448Eh	0	1
Slot 3 - Starter manager (SCW) - Configurations - Commands									
P9390	Slot3 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward	0	rw, 16bit	0	9390	44AEh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward							
P9391	Slot3 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9391	44AFh	0	1
P9392	Slot3 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9392	44B0h	0	1
P1302	Slot 3 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1302	2516h	0	1
Slot 4 - Digital Input/Output									

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 4 - Digital Input/Output - Digital Outputs (DOs)									
P1402	Slot 4 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1402	257Ah	0	1
Slot 4 - Digital Input/Output - Digital Inputs (DIs)									
P1400	Slot 4 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11	-	ro, 32bit	0	1400	2578h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24							
Slot 4 - Digital Input/Output - Configuration									
P1404	Slot 4 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1404	257Ch	0	0
P1406	Slot 4 - Error Value	0 to 4294967295	0	rw, 32bit	0	1406	257Eh	0	0
Slot 4 - Analog Input (AI, TH, RTD)									
Slot 4 - Analog Input (AI, TH, RTD) - Configuration									
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3435	Slot 4 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3435	2D6Bh	0 ... 7	0
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3442	Slot 4 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3442	2D72h	0 ... 7	0
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3449	Slot 4 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3449	2D79h	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3456	Slot 4 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3456	2D80h	0 ... 7	0
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel filter									
P3463	Slot 4 - Filter of the Analog Input Channel - 1 ... 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3463	2D87h	0 ... 7	0
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain									
P3470	Slot 4 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3470	2D8Eh	0 ... 7	0
Slot 4 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3478	Slot 4 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3478	2D96h	0 ... 7	0
Slot 4 - Analog Input (AI, TH, RTD) - Status									
Slot 4 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									
P3400	Slot 4 - 16-bit analog input - 1 ... 7	-32768 to 32767	-	ro, s16bit	0	3400	2D48h	0 ... 7	1
Slot 4 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status									
P3407	Slot 4 - Analog Channel Status - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	0	3407	2D4Fh	0 ... 7	1
Slot 4 - Analog Output									
Slot 4 - Analog Output - Configuration									
Slot 4 - Analog Output - Configuration - Error Mode									
P5408	Slot 4 - Analog Output Error Mode - 1 ... 8	0 to 255	0	rw, 8bit	0	5408	3520h	0 ... 8	0
Slot 4 - Analog Output - Configuration - Error Value									
P5416	Slot 4 - Analog Output Error Value - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5416	3528h	0 ... 8	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 4 - Analog Output - Configuration - Channel Gain									
P5432	Slot 4 - Analog Output Channel Gain - 1 ... 8	0 to 65535	1000	rw, 16bit	0	5432	3538h	0 ... 8	0
Slot 4 - Analog Output - Configuration - Channel Offset									
P5440	Slot 4 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5440	3540h	0 ... 8	0
Slot 4 - Analog Output - 16-Bit Analog Output Value									
P5400	Slot 4 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5400	3518h	0 ... 8	1
Slot 4 - Analog input (SG)									
Slot 4 - Analog input (SG) - Configuration									
Slot 4 - Analog input (SG) - Configuration - Channel Enable									
P7418	Slot 4 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7418	3CFAh	0 ... 2	0
Slot 4 - Analog input (SG) - Configuration - Channel Unit									
P7420	Slot 4 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7420	3CFCh	0 ... 2	0
Slot 4 - Analog input (SG) - Configuration - Channel filter									
P7422	Slot 4 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7422	3CFEh	0 ... 2	0
Slot 4 - Analog input (SG) - Configuration - Channel Gain									
P7424	Slot 4 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7424	3D00h	0 ... 2	0
Slot 4 - Analog input (SG) - Configuration - Channel Offset									
P7426	Slot 4 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7426	3D02h	0 ... 2	0
Slot 4 - Analog input (SG) - Configuration - Channel Full Scale									
P7430	Slot 4 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7430	3D06h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P7406	Slot 4 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7406	3CEEh	0 ... 2	1
Slot 4 - Starter manager (SCW)									
Slot 4 - Starter manager (SCW) - Status									
Slot 4 - Starter manager (SCW) - Status - Product Information									
P1400	Slot 4 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1400	2578h	0	1
P9402	Slot4 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9402	44BAh	0	1
Slot 4 - Starter manager (SCW) - Status - Starters									
P9410	Slot4 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9410	44C2h	0	1
P9411	Slot4 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9411	44C3h	0	1
P9412	Slot4 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9412	44C4h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9413	Slot4 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9413	44C5h	0	1
P9414	Slot4 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9414	44C6h	0	1
P9415	Slot4 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9415	44C7h	0	1
P9416	Slot4 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9416	44C8h	0	1
P9417	Slot4 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9417	44C9h	0	1
P9418	Slot4 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9418	44CAh	0	1
P9419	Slot4 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9419	44CBh	0	1
P9420	Slot4 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9420	44CCh	0	1
P9421	Slot4 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9421	44CDh	0	1
P9422	Slot4 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9422	44CEh	0	1
P9423	Slot4 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9423	44CFh	0	1
P9424	Slot4 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9424	44D0h	0	1
P9425	Slot4 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9425	44D1h	0	1
P9430	Slot4 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9430	44D6h	0	1
P9432	Slot4 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9432	44D8h	0	1
P9434	Slot4 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9434	44DAh	0	1
P9436	Slot4 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9436	44DCh	0	1
P9438	Slot4 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9438	44DEh	0	1
P9440	Slot4 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9440	44E0h	0	1
P9442	Slot4 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9442	44E2h	0	1
P9444	Slot4 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9444	44E4h	0	1
P9460	Slot4 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9460	44F4h	0	1
P9461	Slot4 - P1 Status - Direction and Errors	Bit 0 = Direction	-	ro, 16bit	0	9461	44F5h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 1 = Active error Bit 2 = Active Alarm							
P9462	Slot4 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9462	44F6h	0	1
P9463	Slot4 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9463	44F7h	0	1
P9464	Slot4 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9464	44F8h	0	1
P9465	Slot4 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9465	44F9h	0	1
P9466	Slot4 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9466	44FAh	0	1
P9467	Slot4 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9467	44FBh	0	1
Slot 4 - Starter manager (SCW) - Status - Errors and Alarms									
P9470	Slot4 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened	-	ro, enum	0	9470	44FEh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		4 = Transparent Mode 5 = Wrong Contactor							
P9471	Slot4 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9471	44FFh	0	1
P9472	Slot4 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9472	4500h	0	1
P9473	Slot4 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9473	4501h	0	1
P9475	Slot4 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9475	4503h	0	1
P9476	Slot4 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9476	4504h	0	1
P9477	Slot4 - P3 - Last Alarm	0 = No Alarm 1 = Starter On	-	ro, enum	0	9477	4505h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		2 = Air Circuit Breaker 3 = CPU overtemperature							
P9478	Slot4 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9478	4506h	0	1
Slot 4 - Starter manager (SCW) - Configurations									
Slot 4 - Starter manager (SCW) - Configurations - Starters									
P9480	Slot4 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9480	4508h	0	1
P9481	Slot4 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9481	4509h	0	1
P9482	Slot4 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9482	450Ah	0	1
P9483	Slot4 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9483	450Bh	0	1
P9485	Slot4 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9485	450Dh	0	1
P9486	Slot4 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9486	450Eh	0	1
P9487	Slot4 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9487	450Fh	0	1
P9488	Slot4 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9488	4510h	0	1
P9403	Slot4 - Factory Reset	0 to 65535	0	rw, 16bit	0	9403	44BBh	0	1
Slot 4 - Starter manager (SCW) - Configurations - Counters									
P9450	Slot4 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9450	44EAh	0	1
P9451	Slot4 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9451	44EBh	0	1
P9452	Slot4 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9452	44ECh	0	1
P9453	Slot4 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9453	44EDh	0	1
P9454	Slot4 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9454	44EEh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9455	Slot4 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9455	44EFh	0	1
P9456	Slot4 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9456	44F0h	0	1
P9457	Slot4 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9457	44F1h	0	1
P9458	Slot4 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9458	44F2h	0	1
Slot 4 - Starter manager (SCW) - Configurations - Commands									
P9490	Slot4 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9490	4512h	0	1
P9491	Slot4 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9491	4513h	0	1
P9492	Slot4 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9492	4514h	0	1
P1402	Slot 4 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13	0	rw, 32bit	0	1402	257Ah	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24							
Slot 5 - Digital Input/Output									
Slot 5 - Digital Input/Output - Digital Outputs (DOs)									
P1502	Slot 5 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1502	25DEh	0	1
Slot 5 - Digital Input/Output - Digital Inputs (DIs)									

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P1500	Slot 5 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1500	25DCh	0	1
Slot 5 - Digital Input/Output - Configuration									
P1504	Slot 5 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1504	25E0h	0	0
P1506	Slot 5 - Error Value	0 to 4294967295	0	rw, 32bit	0	1506	25E2h	0	0
Slot 5 - Analog Input (AI, TH, RTD)									
Slot 5 - Analog Input (AI, TH, RTD) - Configuration									
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3535	Slot 5 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3535	2DCFh	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3542	Slot 5 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3542	2DD6h	0 ... 7	0
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3549	Slot 5 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3549	2DDDh	0 ... 7	0
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3556	Slot 5 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3556	2DE4h	0 ... 7	0
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel filter									
P3563	Slot 5 - Filter of the Analog Input Channel - 1 ... 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3563	2DEBh	0 ... 7	0
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain									
P3570	Slot 5 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3570	2DF2h	0 ... 7	0
Slot 5 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3578	Slot 5 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3578	2DFAh	0 ... 7	0
Slot 5 - Analog Input (AI, TH, RTD) - Status									
Slot 5 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									
P3500	Slot 5 - 16-bit analog input - 1 ... 7	-32768 to 32767	-	ro, s16bit	0	3500	2DACH	0 ... 7	1
Slot 5 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status									
P3507	Slot 5 - Analog Channel Status - 1 ... 7		-	ro, enum	0	3507	2DB3h	0 ... 7	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active 2 = ai: Open / th: Open / rtd: Open							
Slot 5 - Analog Output									
Slot 5 - Analog Output - Configuration									
Slot 5 - Analog Output - Configuration - Error Mode									
P5508	Slot 5 - Analog Output Error Mode - 1 ... 8	0 to 255	0	rw, 8bit	0	5508	3584h	0 ... 8	0
Slot 5 - Analog Output - Configuration - Error Value									
P5516	Slot 5 - Analog Output Error Value - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5516	358Ch	0 ... 8	0
Slot 5 - Analog Output - Configuration - Channel Gain									
P5532	Slot 5 - Analog Output Channel Gain - 1 ... 8	0 to 65535	1000	rw, 16bit	0	5532	359Ch	0 ... 8	0
Slot 5 - Analog Output - Configuration - Channel Offset									
P5540	Slot 5 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5540	35A4h	0 ... 8	0
Slot 5 - Analog Output - 16-Bit Analog Output Value									
P5500	Slot 5 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5500	357Ch	0 ... 8	1
Slot 5 - Analog input (SG)									
Slot 5 - Analog input (SG) - Configuration									
Slot 5 - Analog input (SG) - Configuration - Channel Enable									
P7518	Slot 5 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7518	3D5Eh	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel Unit									
P7520	Slot 5 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7520	3D60h	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel filter									
P7522	Slot 5 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values	4	rw, enum	0	7522	3D62h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values							
Slot 5 - Analog input (SG) - Configuration - Channel Gain									
P7524	Slot 5 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7524	3D64h	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel Offset									
P7526	Slot 5 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7526	3D66h	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel Full Scale									
P7530	Slot 5 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7530	3D6Ah	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel Sensitivity									
P7532	Slot 5 - Analog Channel Sensitivity - 1 ... 2	0 to 255	2	rw, 8bit	0	7532	3D6Ch	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel Sampling Rate									
P7534	Slot 5 - Analog Channel Sampling Rate - 1 ... 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) 7 = 214.64 SPS (4.66 ms)	4	rw, enum	0	7534	3D6Eh	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Maximum Channel Variation									
P7536	Slot 5 - Maximum Analog Channel Variation - 1 ... 2	0 to 4294967295	100000	rw, 32bit	0	7536	3D70h	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value									
P7540	Slot 5 - Analog Channel Discard Value - 1 ... 2	0 = Maintain 1 = Discard	0	rw, enum	0	7540	3D74h	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Filter Time Constant									
P7542	Slot 5 - Low Pass Filter - 1 ... 2	0 to 65535	0	rw, 16bit	0	7542	3D76h	0 ... 2	0
Slot 5 - Analog input (SG) - Configuration - Channel Variation Step									
P7544	Slot 5 - Analog Channel Variation Step - 1 ... 2	0 = step 1 (000, 001, 002, 003...)	0	rw, enum	0	7544	3D78h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		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...)							
Slot 5 - Analog input (SG) - Status									
Slot 5 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit									
P7500	Slot 5 - Weight (g, kg, t) 16 Bit - 1 ... 2	-32768 to 32767	-	ro, s16bit	0	7500	3D4Ch	0 ... 2	1
Slot 5 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit									
P7502	Slot 5 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7502	3D4Eh	0 ... 2	1
Slot 5 - Analog input (SG) - Status - Analog SG Channel Status									
P7506	Slot 5 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7506	3D52h	0 ... 2	1
Slot 5 - Starter manager (SCW)									
Slot 5 - Starter manager (SCW) - Status									
Slot 5 - Starter manager (SCW) - Status - Product Information									
P1500	Slot 5 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19	-	ro, 32bit	0	1500	25DCh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24							
P9502	Slot5 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9502	451Eh	0	1
Slot 5 - Starter manager (SCW) - Status - Starters									
P9510	Slot5 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9510	4526h	0	1
P9511	Slot5 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9511	4527h	0	1
P9512	Slot5 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9512	4528h	0	1
P9513	Slot5 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9513	4529h	0	1
P9514	Slot5 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9514	452Ah	0	1
P9515	Slot5 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9515	452Bh	0	1
P9516	Slot5 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9516	452Ch	0	1
P9517	Slot5 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9517	452Dh	0	1
P9518	Slot5 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9518	452Eh	0	1
P9519	Slot5 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9519	452Fh	0	1
P9520	Slot5 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9520	4530h	0	1
P9521	Slot5 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9521	4531h	0	1
P9522	Slot5 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9522	4532h	0	1
P9523	Slot5 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9523	4533h	0	1
P9524	Slot5 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9524	4534h	0	1
P9525	Slot5 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9525	4535h	0	1
P9530	Slot5 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9530	453Ah	0	1
P9532	Slot5 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9532	453Ch	0	1
P9534	Slot5 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9534	453Eh	0	1
P9536	Slot5 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9536	4540h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9538	Slot5 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9538	4542h	0	1
P9540	Slot5 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9540	4544h	0	1
P9542	Slot5 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9542	4546h	0	1
P9544	Slot5 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9544	4548h	0	1
P9560	Slot5 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9560	4558h	0	1
P9561	Slot5 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9561	4559h	0	1
P9562	Slot5 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9562	455Ah	0	1
P9563	Slot5 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9563	455Bh	0	1
P9564	Slot5 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9564	455Ch	0	1
P9565	Slot5 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9565	455Dh	0	1
P9566	Slot5 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK.	-	ro, enum	0	9566	455Eh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		4 = Energized coil							
P9567	Slot5 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9567	455Fh	0	1
Slot 5 - Starter manager (SCW) - Status - Errors and Alarms									
P9570	Slot5 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9570	4562h	0	1
P9571	Slot5 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9571	4563h	0	1
P9572	Slot5 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9572	4564h	0	1
P9573	Slot5 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9573	4565h	0	1
P9575	Slot5 - P1 - Last Alarm	0 = No Alarm	-	ro, enum	0	9575	4567h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature							
P9576	Slot5 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9576	4568h	0	1
P9577	Slot5 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9577	4569h	0	1
P9578	Slot5 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9578	456Ah	0	1
Slot 5 - Starter manager (SCW) - Configurations									
Slot 5 - Starter manager (SCW) - Configurations - Starters									
P9580	Slot5 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9580	456Ch	0	1
P9581	Slot5 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9581	456Dh	0	1
P9582	Slot5 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9582	456Eh	0	1
P9583	Slot5 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9583	456Fh	0	1
P9585	Slot5 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9585	4571h	0	1
P9586	Slot5 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9586	4572h	0	1
P9587	Slot5 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9587	4573h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9588	Slot5 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9588	4574h	0	1
P9503	Slot5 - Factory Reset	0 to 65535	0	rw, 16bit	0	9503	451Fh	0	1
Slot 5 - Starter manager (SCW) - Configurations - Counters									
P9550	Slot5 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9550	454Eh	0	1
P9551	Slot5 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9551	454Fh	0	1
P9552	Slot5 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9552	4550h	0	1
P9553	Slot5 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9553	4551h	0	1
P9554	Slot5 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9554	4552h	0	1
P9555	Slot5 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9555	4553h	0	1
P9556	Slot5 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9556	4554h	0	1
P9557	Slot5 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9557	4555h	0	1
P9558	Slot5 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9558	4556h	0	1
Slot 5 - Starter manager (SCW) - Configurations - Commands									
P9590	Slot5 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9590	4576h	0	1
P9591	Slot5 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9591	4577h	0	1
P9592	Slot5 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9592	4578h	0	1
P1502	Slot 5 - Digital Outputs (DOs)	Bit 0 = DO01	0	rw, 32bit	0	1502	25DEh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		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							
Slot 6 - Digital Input/Output									
Slot 6 - Digital Input/Output - Digital Outputs (DOs)									
P1602	Slot 6 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14	0	rw, 32bit	0	1602	2642h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24							
Slot 6 - Digital Input/Output - Digital Inputs (DIs)									
P1600	Slot 6 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1600	2640h	0	1
Slot 6 - Digital Input/Output - Configuration									
P1604	Slot 6 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1604	2644h	0	0
P1606	Slot 6 - Error Value	0 to 4294967295	0	rw, 32bit	0	1606	2646h	0	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P3670	Slot 6 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3670	2E56h	0 ... 7	0
Slot 6 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3678	Slot 6 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3678	2E5Eh	0 ... 7	0
Slot 6 - Analog Input (AI, TH, RTD) - Status									
Slot 6 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									
P3600	Slot 6 - 16-bit analog input - 1 ... 7	-32768 to 32767	-	ro, s16bit	0	3600	2E10h	0 ... 7	1
Slot 6 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status									
P3607	Slot 6 - Analog Channel Status - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active 2 = ai: Open / th: Open / rtd: Open	-	ro, enum	0	3607	2E17h	0 ... 7	1
Slot 6 - Analog Output									
Slot 6 - Analog Output - Configuration									
Slot 6 - Analog Output - Configuration - Error Mode									
P5608	Slot 6 - Analog Output Error Mode - 1 ... 8	0 to 255	0	rw, 8bit	0	5608	35E8h	0 ... 8	0
Slot 6 - Analog Output - Configuration - Error Value									
P5616	Slot 6 - Analog Output Error Value - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5616	35F0h	0 ... 8	0
Slot 6 - Analog Output - Configuration - Channel Gain									
P5632	Slot 6 - Analog Output Channel Gain - 1 ... 8	0 to 65535	1000	rw, 16bit	0	5632	3600h	0 ... 8	0
Slot 6 - Analog Output - Configuration - Channel Offset									
P5640	Slot 6 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5640	3608h	0 ... 8	0
Slot 6 - Analog Output - 16-Bit Analog Output Value									
P5600	Slot 6 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5600	35E0h	0 ... 8	1
Slot 6 - Analog input (SG)									
Slot 6 - Analog input (SG) - Configuration									
Slot 6 - Analog input (SG) - Configuration - Channel Enable									
P7618	Slot 6 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7618	3DC2h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 6 - Analog input (SG) - Configuration - Channel Unit									
P7620	Slot 6 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7620	3DC4h	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel filter									
P7622	Slot 6 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7622	3DC6h	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel Gain									
P7624	Slot 6 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7624	3DC8h	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel Offset									
P7626	Slot 6 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7626	3DCAh	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel Full Scale									
P7630	Slot 6 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7630	3DCEh	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel Sensitivity									
P7632	Slot 6 - Analog Channel Sensitivity - 1 ... 2	0 to 255	2	rw, 8bit	0	7632	3DD0h	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel Sampling Rate									
P7634	Slot 6 - Analog Channel Sampling Rate - 1 ... 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) 7 = 214.64 SPS (4.66 ms)	4	rw, enum	0	7634	3DD2h	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Maximum Channel Variation									
P7636	Slot 6 - Maximum Analog Channel Variation - 1 ... 2	0 to 4294967295	100000	rw, 32bit	0	7636	3DD4h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 6 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value									
P7640	Slot 6 - Analog Channel Discard Value - 1 ... 2	0 = Maintain 1 = Discard	0	rw, enum	0	7640	3DD8h	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Filter Time Constant									
P7642	Slot 6 - Low Pass Filter - 1 ... 2	0 to 65535	0	rw, 16bit	0	7642	3DDAh	0 ... 2	0
Slot 6 - Analog input (SG) - Configuration - Channel Variation Step									
P7644	Slot 6 - Analog Channel Variation Step - 1 ... 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7644	3DDCh	0 ... 2	0
Slot 6 - Analog input (SG) - Status									
Slot 6 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit									
P7600	Slot 6 - Weight (g, kg, t) 16 Bit - 1 ... 2	-32768 to 32767	-	ro, s16bit	0	7600	3DB0h	0 ... 2	1
Slot 6 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit									
P7602	Slot 6 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7602	3DB2h	0 ... 2	1
Slot 6 - Analog input (SG) - Status - SG Analog Channel Status									
P7606	Slot 6 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7606	3DB6h	0 ... 2	1
Slot 6 - Starter manager (SCW)									
Slot 6 - Starter manager (SCW) - Status									
Slot 6 - Starter manager (SCW) - Status - Product Information									
P1600	Slot 6 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08	-	ro, 32bit	0	1600	2640h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		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							
P9602	Slot6 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9602	4582h	0	1
Slot 6 - Starter manager (SCW) - Status - Starters									
P9610	Slot6 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9610	458Ah	0	1
P9611	Slot6 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9611	458Bh	0	1
P9612	Slot6 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9612	458Ch	0	1
P9613	Slot6 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9613	458Dh	0	1
P9614	Slot6 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9614	458Eh	0	1
P9615	Slot6 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9615	458Fh	0	1
P9616	Slot6 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9616	4590h	0	1
P9617	Slot6 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9617	4591h	0	1
P9618	Slot6 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9618	4592h	0	1
P9619	Slot6 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9619	4593h	0	1
P9620	Slot6 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9620	4594h	0	1
P9621	Slot6 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9621	4595h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9622	Slot6 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9622	4596h	0	1
P9623	Slot6 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9623	4597h	0	1
P9624	Slot6 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9624	4598h	0	1
P9625	Slot6 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9625	4599h	0	1
P9630	Slot6 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9630	459Eh	0	1
P9632	Slot6 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9632	45A0h	0	1
P9634	Slot6 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9634	45A2h	0	1
P9636	Slot6 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9636	45A4h	0	1
P9638	Slot6 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9638	45A6h	0	1
P9640	Slot6 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9640	45A8h	0	1
P9642	Slot6 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9642	45AAh	0	1
P9644	Slot6 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9644	45ACh	0	1
P9660	Slot6 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9660	45BCh	0	1
P9661	Slot6 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9661	45BDh	0	1
P9662	Slot6 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9662	45BEh	0	1
P9663	Slot6 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9663	45BFh	0	1
P9664	Slot6 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil	-	ro, enum	0	9664	45C0h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		3 = Starter OK. 4 = Energized coil							
P9665	Slot6 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9665	45C1h	0	1
P9666	Slot6 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9666	45C2h	0	1
P9667	Slot6 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9667	45C3h	0	1
Slot 6 - Starter manager (SCW) - Status - Errors and Alarms									
P9670	Slot6 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9670	45C6h	0	1
P9671	Slot6 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9671	45C7h	0	1
P9672	Slot6 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode	-	ro, enum	0	9672	45C8h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		5 = Wrong Contactor							
P9673	Slot6 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9673	45C9h	0	1
P9675	Slot6 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9675	45CBh	0	1
P9676	Slot6 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9676	45CCh	0	1
P9677	Slot6 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9677	45CDh	0	1
P9678	Slot6 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9678	45CEh	0	1
Slot 6 - Starter manager (SCW) - Configurations									
Slot 6 - Starter manager (SCW) - Configurations - Starters									
P9680	Slot6 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9680	45D0h	0	1
P9681	Slot6 - P2 - Operation Mode	0 = Starter	0	rw, 8bit	0	9681	45D1h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = Transparent							
P9682	Slot6 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9682	45D2h	0	1
P9683	Slot6 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9683	45D3h	0	1
P9685	Slot6 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9685	45D5h	0	1
P9686	Slot6 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9686	45D6h	0	1
P9687	Slot6 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9687	45D7h	0	1
P9688	Slot6 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9688	45D8h	0	1
P9603	Slot6 - Factory Reset	0 to 65535	0	rw, 16bit	0	9603	4583h	0	1
Slot 6 - Starter manager (SCW) - Configurations - Counters									
P9650	Slot6 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9650	45B2h	0	1
P9651	Slot6 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9651	45B3h	0	1
P9652	Slot6 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9652	45B4h	0	1
P9653	Slot6 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9653	45B5h	0	1
P9654	Slot6 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9654	45B6h	0	1
P9655	Slot6 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9655	45B7h	0	1
P9656	Slot6 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9656	45B8h	0	1
P9657	Slot6 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9657	45B9h	0	1
P9658	Slot6 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9658	45BAh	0	1
Slot 6 - Starter manager (SCW) - Configurations - Commands									
P9690	Slot6 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9690	45DAh	0	1
P9691	Slot6 - Reverse Starter Command	Bit 0 = Starter 1 - reverse	0	rw, 16bit	0	9691	45DBh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse							
P9692	Slot6 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9692	45DCh	0	1
P1602	Slot 6 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1602	2642h	0	1
Slot 7 - Digital Input/Output									
Slot 7 - Digital Input/Output - Digital Outputs (DOs)									
P1702	Slot 7 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02	0	rw, 32bit	0	1702	26A6h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24							
Slot 7 - Digital Input/Output - Digital Inputs (DIs)									
P1700	Slot 7 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16	-	ro, 32bit	0	1700	26A4h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24							
Slot 7 - Digital Input/Output - Configuration									
P1704	Slot 7 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1704	26A8h	0	0
P1706	Slot 7 - Error Value	0 to 4294967295	0	rw, 32bit	0	1706	26AAh	0	0
Slot 7 - Analog Input (AI, TH, RTD)									
Slot 7 - Analog Input (AI, TH, RTD) - Configuration									
Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3735	Slot 7 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3735	2E97h	0 ... 7	0
Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3742	Slot 7 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100 1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv	0	rw, enum	0	3742	2E9Eh	0 ... 7	0
Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3749	Slot 7 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3749	2EA5h	0 ... 7	0
Slot 7 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3756	Slot 7 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1	1	rw, enum	0	3756	2EACh	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P5740	Slot 7 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5740	366Ch	0 ... 8	0
Slot 7 - Analog Output - 16-Bit Analog Output Value									
P5700	Slot 7 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5700	3644h	0 ... 8	1
Slot 7 - Analog input (SG)									
Slot 7 - Analog input (SG) - Configuration									
Slot 7 - Analog input (SG) - Configuration - Channel Enable									
P7718	Slot 7 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7718	3E26h	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Unit									
P7720	Slot 7 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7720	3E28h	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel filter									
P7722	Slot 7 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7722	3E2Ah	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Gain									
P7724	Slot 7 - Analog Channel Gain - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7724	3E2Ch	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Offset									
P7726	Slot 7 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7726	3E2Eh	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Full Scale									
P7730	Slot 7 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7730	3E32h	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Sensitivity									
P7732	Slot 7 - Analog Channel Sensitivity - 1 ... 2	0 to 255	2	rw, 8bit	0	7732	3E34h	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Sampling Rate									

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P7734	Slot 7 - Analog Channel Sampling Rate - 1 ... 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) 7 = 214.64 SPS (4.66 ms)	4	rw, enum	0	7734	3E36h	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Maximum Channel Variation									
P7736	Slot 7 - Maximum Analog Channel Variation - 1 ... 2	0 to 4294967295	100000	rw, 32bit	0	7736	3E38h	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value									
P7740	Slot 7 - Analog Channel Discard Value - 1 ... 2	0 = Maintain 1 = Discard	0	rw, enum	0	7740	3E3Ch	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Filter Time Constant									
P7742	Slot 7 - Low Pass Filter - 1 ... 2	0 to 65535	0	rw, 16bit	0	7742	3E3Eh	0 ... 2	0
Slot 7 - Analog input (SG) - Configuration - Channel Variation Step									
P7744	Slot 7 - Analog Channel Variation Step - 1 ... 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7744	3E40h	0 ... 2	0
Slot 7 - Analog input (SG) - Status									
Slot 7 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit									
P7700	Slot 7 - Weight (g, kg, t) 16 Bit - 1 ... 2	-32768 to 32767	-	ro, s16bit	0	7700	3E14h	0 ... 2	1
Slot 7 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit									
P7702	Slot 7 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7702	3E16h	0 ... 2	1
Slot 7 - Analog input (SG) - Status - SG Analog Channel Status									
P7706	Slot 7 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7706	3E1Ah	0 ... 2	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 7 - Starter manager (SCW)									
Slot 7 - Starter manager (SCW) - Status									
Slot 7 - Starter manager (SCW) - Status - Product Information									
P1700	Slot 7 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23 Bit 23 = DI24	-	ro, 32bit	0	1700	26A4h	0	1
P9702	Slot7 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9702	45E6h	0	1
Slot 7 - Starter manager (SCW) - Status - Starters									
P9710	Slot7 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9710	45EEh	0	1
P9711	Slot7 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9711	45EFh	0	1
P9712	Slot7 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9712	45F0h	0	1
P9713	Slot7 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9713	45F1h	0	1
P9714	Slot7 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9714	45F2h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9715	Slot7 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9715	45F3h	0	1
P9716	Slot7 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9716	45F4h	0	1
P9717	Slot7 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9717	45F5h	0	1
P9718	Slot7 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9718	45F6h	0	1
P9719	Slot7 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9719	45F7h	0	1
P9720	Slot7 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9720	45F8h	0	1
P9721	Slot7 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9721	45F9h	0	1
P9722	Slot7 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9722	45FAh	0	1
P9723	Slot7 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9723	45FBh	0	1
P9724	Slot7 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9724	45FCh	0	1
P9725	Slot7 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9725	45FDh	0	1
P9730	Slot7 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9730	4602h	0	1
P9732	Slot7 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9732	4604h	0	1
P9734	Slot7 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9734	4606h	0	1
P9736	Slot7 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9736	4608h	0	1
P9738	Slot7 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9738	460Ah	0	1
P9740	Slot7 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9740	460Ch	0	1
P9742	Slot7 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9742	460Eh	0	1
P9744	Slot7 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9744	4610h	0	1
P9760	Slot7 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9760	4620h	0	1
P9761	Slot7 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9761	4621h	0	1
P9762	Slot7 - P2 Status - Starter		-	ro, enum	0	9762	4622h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil							
P9763	Slot7 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9763	4623h	0	1
P9764	Slot7 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9764	4624h	0	1
P9765	Slot7 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9765	4625h	0	1
P9766	Slot7 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9766	4626h	0	1
P9767	Slot7 - P4 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9767	4627h	0	1
Slot 7 - Starter manager (SCW) - Status - Errors and Alarms									
P9770	Slot7 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9770	462Ah	0	1
P9771	Slot7 - P2 - Last Error		-	ro, enum	0	9771	462Bh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor							
P9772	Slot7 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9772	462Ch	0	1
P9773	Slot7 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9773	462Dh	0	1
P9775	Slot7 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9775	462Fh	0	1
P9776	Slot7 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9776	4630h	0	1
P9777	Slot7 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9777	4631h	0	1
P9778	Slot7 - P4 - Last Alarm		-	ro, enum	0	9778	4632h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature							
Slot 7 - Starter manager (SCW) - Configurations									
Slot 7 - Starter manager (SCW) - Configurations - Starters									
P9780	Slot7 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9780	4634h	0	1
P9781	Slot7 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9781	4635h	0	1
P9782	Slot7 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9782	4636h	0	1
P9783	Slot7 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9783	4637h	0	1
P9785	Slot7 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9785	4639h	0	1
P9786	Slot7 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9786	463Ah	0	1
P9787	Slot7 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9787	463Bh	0	1
P9788	Slot7 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9788	463Ch	0	1
P9703	Slot7 - Factory Reset	0 to 65535	0	rw, 16bit	0	9703	45E7h	0	1
Slot 7 - Starter manager (SCW) - Configurations - Counters									
P9750	Slot7 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9750	4616h	0	1
P9751	Slot7 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9751	4617h	0	1
P9752	Slot7 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9752	4618h	0	1
P9753	Slot7 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9753	4619h	0	1
P9754	Slot7 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9754	461Ah	0	1
P9755	Slot7 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9755	461Bh	0	1
P9756	Slot7 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9756	461Ch	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9757	Slot7 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9757	461Dh	0	1
P9758	Slot7 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9758	461Eh	0	1
Slot 7 - Starter manager (SCW) - Configurations - Commands									
P9790	Slot7 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9790	463Eh	0	1
P9791	Slot7 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9791	463Fh	0	1
P9792	Slot7 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9792	4640h	0	1
P1702	Slot 7 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17	0	rw, 32bit	0	1702	26A6h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24							
Slot 8 - Digital Input/Output									
Slot 8 - Digital Input/Output - Digital Outputs (DOs)									
P1802	Slot 8 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03 Bit 3 = DO04 Bit 4 = DO05 Bit 5 = DO06 Bit 6 = DO07 Bit 7 = DO08 Bit 8 = DO09 Bit 9 = DO10 Bit 10 = DO11 Bit 11 = DO12 Bit 12 = DO13 Bit 13 = DO14 Bit 14 = DO15 Bit 15 = DO16 Bit 16 = DO17 Bit 17 = DO18 Bit 18 = DO19 Bit 19 = DO20 Bit 20 = DO21 Bit 21 = DO22 Bit 22 = DO23 Bit 23 = DO24	0	rw, 32bit	0	1802	270Ah	0	1
Slot 8 - Digital Input/Output - Digital Inputs (DIs)									
P1800	Slot 8 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03	-	ro, 32bit	0	1800	2708h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		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							
Slot 8 - Digital Input/Output - Configuration									
P1804	Slot 8 - Error Mode of the Digital Outputs	0 to 4294967295	0	rw, 32bit	0	1804	270Ch	0	0
P1806	Slot 8 - Error Value	0 to 4294967295	0	rw, 32bit	0	1806	270Eh	0	0
Slot 8 - Analog Input (AI, TH, RTD)									
Slot 8 - Analog Input (AI, TH, RTD) - Configuration									
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Active Channel									
P3835	Slot 8 - Active Analog Input Channel - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active with CJC / rtd: Active 2 = ai: Reserv / th: Active without CJC / rtd: Reserv	1	rw, enum	0	3835	2EFBh	0 ... 7	0
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Type									
P3842	Slot 8 - Analog Input Channel Type - 1 ... 7	0 = ai: 0-10V / th: J / rtd: PT100	0	rw, enum	0	3842	2F02h	0 ... 7	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		1 = ai: 0-20mA / th: K / rtd: PT1000 2 = ai: 4-20mA / th: T / rtd: Reserv							
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Unit									
P3849	Slot 8 - Analog Input Channel Unit 1 - 1 ... 7	0 = ai: Not used/ th: °C / rtd: °C 1 = ai: Not used/ th: °F / rtd: °F 2 = ai: Not used / th: K / rtd: K	0	rw, enum	0	3849	2F09h	0 ... 7	0
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Decimal Digit									
P3856	Slot 8 - Decimal Digit of the Analog Input Channel - 1 ... 7	0 = ai: 0 / th: 0 / rtd: 0 1 = ai: 1 / th: 1 / rtd: 1 2 = ai: 2 / th: 1 / rtd: 1 3 = ai: 3 / th: 1 / rtd: 1	1	rw, enum	0	3856	2F10h	0 ... 7	0
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel filter									
P3863	Slot 8 - Filter of the Analog Input Channel - 1 ... 7	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	3863	2F17h	0 ... 7	0
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Gain									
P3870	Slot 8 - Gain of the Analog Input Channel - 1 ... 7	-32768 to 32767	1000	rw, s16bit	0	3870	2F1Eh	0 ... 7	0
Slot 8 - Analog Input (AI, TH, RTD) - Configuration - Channel Offset									
P3878	Slot 8 - Offset of the Analog Input Channel - 1 ... 7	-32768 to 32767	0	rw, s16bit	0	3878	2F26h	0 ... 7	0
Slot 8 - Analog Input (AI, TH, RTD) - Status									
Slot 8 - Analog Input (AI, TH, RTD) - Status - 16-Bit Analog Input									
P3800	Slot 8 - 16-bit analog input - 1 ... 7	-32768 to 32767	-	ro, s16bit	0	3800	2ED8h	0 ... 7	1
Slot 8 - Analog Input (AI, TH, RTD) - Status - Analog Channel Status									
P3807	Slot 8 - Analog Channel Status - 1 ... 7	0 = ai: Inactive / th: Inactive / rtd: Inactive 1 = ai: Active / th: Active / rtd: Active	-	ro, enum	0	3807	2EDFh	0 ... 7	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		2 = ai: Open / th: Open / rtd: Open							
Slot 8 - Analog Output									
Slot 8 - Analog Output - Configuration									
Slot 8 - Analog Output - Configuration - Error Mode									
P5808	Slot 8 - Analog Output Error Mode - 1 ... 8	0 to 255	0	rw, 8bit	0	5808	36B0h	0 ... 8	0
Slot 8 - Analog Output - Configuration - Error Value									
P5816	Slot 8 - Analog Output Error Value - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5816	36B8h	0 ... 8	0
Slot 8 - Analog Output - Configuration - Channel Gain									
P5832	Slot 8 - Analog Output Channel Gain - 1 ... 8	0 to 65535	1000	rw, 16bit	0	5832	36C8h	0 ... 8	0
Slot 8 - Analog Output - Configuration - Channel Offset									
P5840	Slot 8 - Analog Output Channel Offset - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5840	36D0h	0 ... 8	0
Slot 8 - Analog Output - 16-Bit Analog Output Value									
P5800	Slot 8 - 16-Bit Analog Output - 1 ... 8	-32768 to 32767	0	rw, s16bit	0	5800	36A8h	0 ... 8	1
Slot 8 - Analog input (SG)									
Slot 8 - Analog input (SG) - Configuration									
Slot 8 - Analog input (SG) - Configuration - Channel Enable									
P7818	Slot 8 - Enables Analog Channel - 1 ... 2	0 = Inactive 1 = Active	1	rw, enum	0	7818	3E8Ah	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel Unit									
P7820	Slot 8 - Analog Channel Unit - 1 ... 2	0 = g 1 = kg 2 = t	0	rw, enum	0	7820	3E8Ch	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel filter									
P7822	Slot 8 - Moving Average Filter - 1 ... 2	0 = No Filter 1 = Average of 2 Values 2 = Average of 4 Values 3 = Average of 8 Values 4 = Average of 16 Values 5 = Average of 32 Values	4	rw, enum	0	7822	3E8Eh	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 8 - Analog input (SG) - Configuration - Channel Gain									
P7824	Slot 8 - Moving Average Filter - 1 ... 2	-32768 to 32767	1000	rw, s16bit	0	7824	3E90h	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel Offset									
P7826	Slot 8 - Analog Channel Offset - 1 ... 2	-2147483648 to 2147483647	0	rw, s32bit	0	7826	3E92h	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel Full Scale									
P7830	Slot 8 - Analog Channel Full Scale - 1 ... 2	0 to 65535	10000	rw, 16bit	0	7830	3E96h	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel Sensitivity									
P7832	Slot 8 - Analog Channel Sensitivity - 1 ... 2	0 to 255	2	rw, 8bit	0	7832	3E98h	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel Sampling Rate									
P7834	Slot 8 - Analog Channel Sampling Rate - 1 ... 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) 7 = 214.64 SPS (4.66 ms)	4	rw, enum	0	7834	3E9Ah	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Maximum Channel Variation									
P7836	Slot 8 - Maximum Analog Channel Variation - 1 ... 2	0 to 4294967295	100000	rw, 32bit	0	7836	3E9Ch	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Discard Maximum and Minimum Value									
P7840	Slot 8 - Analog Channel Discard Value - 1 ... 2	0 = Maintain 1 = Discard	0	rw, enum	0	7840	3EA0h	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Filter Time Constant									
P7842	Slot 8 - Low Pass Filter - 1 ... 2	0 to 65535	0	rw, 16bit	0	7842	3EA2h	0 ... 2	0
Slot 8 - Analog input (SG) - Configuration - Channel Variation Step									
P7844	Slot 8 - Analog Channel Variation Step - 1 ... 2	0 = step 1 (000, 001, 002, 003...) 1 = step 2 (000, 002, 004, 006 ...) 2 = step 5 (000, 005, 010, 015...) 3 = step 10 (000, 010, 020, 030...) 4 = step 50 (000, 050, 100, 150...)	0	rw, enum	0	7844	3EA4h	0 ... 2	0

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 8 - Analog input (SG) - Status									
Slot 8 - Analog input (SG) - Status - Weight (g, kg, t) 16 Bit									
P7800	Slot 8 - Weight (g, kg, t) 16 Bit - 1 ... 2	-32768 to 32767	-	ro, s16bit	0	7800	3E78h	0 ... 2	1
Slot 8 - Analog input (SG) - Status - Weight (g, kg, t) 32 Bit									
P7802	Slot 8 - Weight (g, kg, t) 32 Bit - 1 ... 2	-2147483648 to 2147483647	-	ro, s32bit	0	7802	3E7Ah	0 ... 2	1
Slot 8 - Analog input (SG) - Status - SG Analog Channel Status									
P7806	Slot 8 - Analog Channel Status - 1 ... 2	0 = Inactive 1 = Active	-	ro, enum	0	7806	3E7Eh	0 ... 2	1
Slot 8 - Starter manager (SCW)									
Slot 8 - Starter manager (SCW) - Status									
Slot 8 - Starter manager (SCW) - Status - Product Information									
P1800	Slot 8 - Digital Inputs (DIs)	Bit 0 = DI01 Bit 1 = DI02 Bit 2 = DI03 Bit 3 = DI04 Bit 4 = DI05 Bit 5 = DI06 Bit 6 = DI07 Bit 7 = DI08 Bit 8 = DI09 Bit 9 = DI10 Bit 10 = DI11 Bit 11 = DI12 Bit 12 = DI13 Bit 13 = DI14 Bit 14 = DI15 Bit 15 = DI16 Bit 16 = DI17 Bit 17 = DI18 Bit 18 = DI19 Bit 19 = DI20 Bit 20 = DI21 Bit 21 = DI22 Bit 22 = DI23	-	ro, 32bit	0	1800	2708h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 23 = DI24							
P9802	Slot8 - CPU Temperature	-100 to 100 °C	-	ro, s8bit	0	9802	464Ah	0	1
Slot 8 - Starter manager (SCW) - Status - Starters									
P9810	Slot8 - P1 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9810	4652h	0	1
P9811	Slot8 - P1 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9811	4653h	0	1
P9812	Slot8 - P1 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9812	4654h	0	1
P9813	Slot8 - P1 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9813	4655h	0	1
P9814	Slot8 - P2 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9814	4656h	0	1
P9815	Slot8 - P2 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9815	4657h	0	1
P9816	Slot8 - P2 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9816	4658h	0	1
P9817	Slot8 - P2 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9817	4659h	0	1
P9818	Slot8 - P3 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9818	465Ah	0	1
P9819	Slot8 - P3 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9819	465Bh	0	1
P9820	Slot8 - P3 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9820	465Ch	0	1
P9821	Slot8 - P3 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9821	465Dh	0	1
P9822	Slot8 - P4 Contactor 1 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9822	465Eh	0	1
P9823	Slot8 - P4 Contactor 1 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9823	465Fh	0	1
P9824	Slot8 - P4 Contactor 2 Closing Time	0 to 65535 ms	-	ro, 16bit	0	9824	4660h	0	1
P9825	Slot8 - P4 Contactor 2 Opening Time	0 to 65535 ms	-	ro, 16bit	0	9825	4661h	0	1
P9830	Slot8 - P1 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9830	4666h	0	1
P9832	Slot8 - P1 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9832	4668h	0	1
P9834	Slot8 - P2 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9834	466Ah	0	1
P9836	Slot8 - P2 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9836	466Ch	0	1
P9838	Slot8 - P3 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9838	466Eh	0	1
P9840	Slot8 - P3 C2 operation counter	0 to 10000000	-	ro, 32bit	0	9840	4670h	0	1
P9842	Slot8 - P4 C1 operation counter	0 to 10000000	-	ro, 32bit	0	9842	4672h	0	1
P9844	Slot8 - P4 C4 operation counter	0 to 10000000	-	ro, 32bit	0	9844	4674h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9860	Slot8 - P1 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9860	4684h	0	1
P9861	Slot8 - P1 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9861	4685h	0	1
P9862	Slot8 - P2 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9862	4686h	0	1
P9863	Slot8 - P2 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9863	4687h	0	1
P9864	Slot8 - P3 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9864	4688h	0	1
P9865	Slot8 - P3 Status - Direction and Errors	Bit 0 = Direction Bit 1 = Active error Bit 2 = Active Alarm	-	ro, 16bit	0	9865	4689h	0	1
P9866	Slot8 - P4 Status - Starter	1 = Stop OK 2 = De-energized coil 3 = Starter OK. 4 = Energized coil	-	ro, enum	0	9866	468Ah	0	1
P9867	Slot8 - P4 Status - Direction and Errors	Bit 0 = Direction	-	ro, 16bit	0	9867	468Bh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
		Bit 1 = Active error Bit 2 = Active Alarm							
Slot 8 - Starter manager (SCW) - Status - Errors and Alarms									
P9870	Slot8 - P1 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9870	468Eh	0	1
P9871	Slot8 - P2 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9871	468Fh	0	1
P9872	Slot8 - P3 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9872	4690h	0	1
P9873	Slot8 - P4 - Last Error	0 = No Error 1 = Stuck Contact 2 = Burned Coil 3 = Contactor Opened 4 = Transparent Mode 5 = Wrong Contactor	-	ro, enum	0	9873	4691h	0	1
P9875	Slot8 - P1 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9875	4693h	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
P9876	Slot8 - P2 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9876	4694h	0	1
P9877	Slot8 - P3 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9877	4695h	0	1
P9878	Slot8 - P4 - Last Alarm	0 = No Alarm 1 = Starter On 2 = Air Circuit Breaker 3 = CPU overtemperature	-	ro, enum	0	9878	4696h	0	1
Slot 8 - Starter manager (SCW) - Configurations									
Slot 8 - Starter manager (SCW) - Configurations - Starters									
P9880	Slot8 - P1 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9880	4698h	0	1
P9881	Slot8 - P2 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9881	4699h	0	1
P9882	Slot8 - P3 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9882	469Ah	0	1
P9883	Slot8 - P4 - Operation Mode	0 = Starter 1 = Transparent	0	rw, 8bit	0	9883	469Bh	0	1
P9885	Slot8 - P1 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9885	469Dh	0	1
P9886	Slot8 - P2 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9886	469Eh	0	1
P9887	Slot8 - P3 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9887	469Fh	0	1
P9888	Slot8 - P4 - Contactor Timeout	20 to 5000 ms	500 ms	rw, 16bit	0	9888	46A0h	0	1
P9803	Slot8 - Factory Reset	0 to 65535	0	rw, 16bit	0	9803	464Bh	0	1

Parameter	Description	Range of values	Factory setting	Properties	Decimal Places	Communication Address	CANopen Index	Sub-Index	PDO Mapping
Slot 8 - Starter manager (SCW) - Configurations - Counters									
P9850	Slot8 - Saves Operation Counters to the NV memory	0 to 1	0	rw, 8bit	0	9850	467Ah	0	1
P9851	Slot8 - Resets P1 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9851	467Bh	0	1
P9852	Slot8 - Resets P1 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9852	467Ch	0	1
P9853	Slot8 - Resets P2 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9853	467Dh	0	1
P9854	Slot8 - Resets P2 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9854	467Eh	0	1
P9855	Slot8 - Resets P3 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9855	467Fh	0	1
P9856	Slot8 - Resets P3 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9856	4680h	0	1
P9857	Slot8 - Resets P4 C1 Operation Counter	0 to 65535	0	rw, 16bit	0	9857	4681h	0	1
P9858	Slot8 - Resets P4 C2 Operation Counter	0 to 65535	0	rw, 16bit	0	9858	4682h	0	1
Slot 8 - Starter manager (SCW) - Configurations - Commands									
P9890	Slot8 - Forward Starter Command	Bit 0 = Starter 1 - forward Bit 1 = Starter 2 - forward Bit 2 = Starter 3 - forward Bit 3 = Starter 4 - forward	0	rw, 16bit	0	9890	46A2h	0	1
P9891	Slot8 - Reverse Starter Command	Bit 0 = Starter 1 - reverse Bit 1 = Starter 2 - reverse Bit 2 = Starter 3 - reverse Bit 3 = Starter 4 - reverse	0	rw, 16bit	0	9891	46A3h	0	1
P9892	Slot8 - Stop Command	Bit 0 = Starter 1 - turn off Bit 1 = Starter 2 - turn off Bit 2 = Starter 3 - turn off Bit 3 = Starter 4 - turn off	0	rw, 16bit	0	9892	46A4h	0	1
P1802	Slot 8 - Digital Outputs (DOs)	Bit 0 = DO01 Bit 1 = DO02 Bit 2 = DO03	0	rw, 32bit	0	1802	270Ah	0	1

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

Table 11.2: Description of the parameter data types

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



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