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simulation entwicklung consulting

Manual and Configuration **Energex® KNX SmartMeter²**

for 85 A and 800 A variants



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Notices

- Installation and assembly of electrical equipment must be performed by qualified electricians.
- When connecting KNX/EIB interfaces skills are provided by KNX™-Training.
- Ignoring the instructions may damage the device as well as causing fire or other hazards.
- This manual is part of the product and must remain with the end user.
- The manufacturer is not liable for any costs or damages incurred by the user or third parties through the use of this device, misuse or malfunction of the connection, malfunction of the device or the subscriber equipment.
- Opening the case or other authorized changes or modifications will void the warranty!
- The manufacturer is not liable for improper use.

Device Description

The Enertex® KNX SmartMeter² is an energy meter for single-phase or three-phase electrical networks. The device records electrical values, provides these values to the system, and can derive additional functions from them such as energy counters, cost counters, intermediate counters, and energy management.

In practical use, variants **1182-85** and **1182-800** mainly differ by the current transformers used. For correct operation, the transformer type must therefore be parameterized in the ETS application.

In addition to pure measurement acquisition, the SmartMeter² can also be used as a functional block for energy visualization and energy management. Measured values, counter readings, cost values, and switching information can be integrated into logic functions, visualizations, and automation functions.

Functional Overview

The SmartMeter² combines several functions in a single device:

- **Measurements:** Acquisition of electrical values per phase and as a total value.
- **Energy counters:** Summation of energy consumption and energy generation.
- **Intermediate counters:** Self-resetting counters, for example for hourly values, daily values, or freely defined evaluation periods.
- **Energy costs:** Calculation of cost values based on measured energy and predefined or dynamic prices.
- **Energy management:** Output of enables, switching telegrams, or setpoint values based on a defined input value.
- **Logic block:** Flexibly configurable logic block.
- **Device for grid support** in Germany (EMS according to §14a)

Mounting and Connection

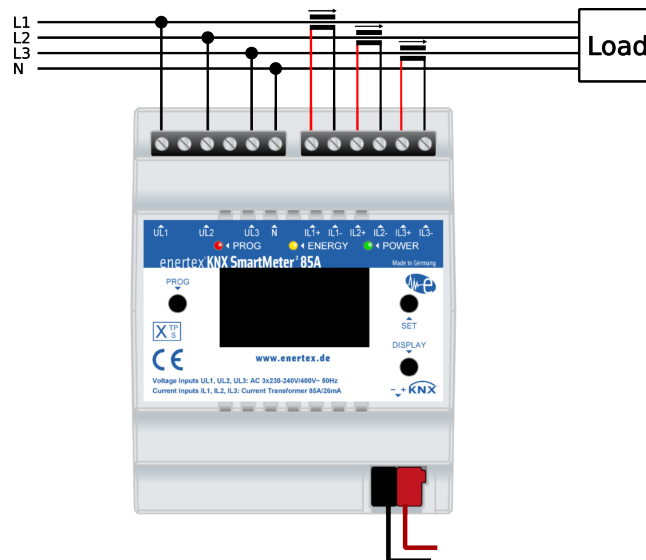


Figure 1. Connection diagram with example wiring for the 85 A variant with load

Danger to life due to electric shock!

Before working on the device, disconnect it from power and cover live parts in the surrounding area!

Mount the device on a DIN rail inside the distribution board. The connection diagram shown in [Figure 1](#) is only an example and illustrates the application for connection to a three-phase AC system with neutral conductor. The neutral conductor and the measurement inputs for the three voltages UL1, UL2, and UL3 are connected to the corresponding screw terminals. If the SmartMeter² is not operated in a three-phase system, the phase voltage of the respective current channel must be connected to voltage inputs UL1, UL2, and UL3. For example, if three power values are to be measured on a single phase, this phase must be connected to all three channels UL1, UL2, and UL3.

In IT systems without a neutral conductor, the neutral conductor terminal remains unused. In this case, the parameter **IT system** must be selected in ETS under the network type parameter.

There are two device variants for different current measurement ranges, which also differ in the supplied current transformers. The Enertex® KNX SmartMeter² 85 A includes 85 A transformers of type SCT010, whereas the Enertex® KNX SmartMeter² 800 A includes transformers of type SCT051.

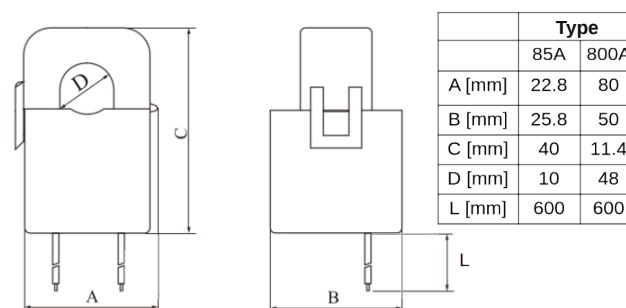


Figure 2. Current transformers

The current transformers must be connected to the corresponding SmartMeter² terminals according to [Figure 1](#) with the following assignment:

- I+ : red
- I- : black

The corresponding current sensor must be mounted around the live conductor to be measured. For correct active power and energy measurement, make sure that the current transformers are connected to the correct phase. This means that the current transformer on channel IL1 (or IL2 or IL3) must be mounted around the conductor that is connected to voltage input UL1 (or UL2 or UL3). **Caution: Only insulated conductors may be routed through the current sensor; bare conductors are not permitted!**

Each current sensor is marked with a power counting arrow indicating the positive power counting direction. Power flow in this direction corresponds to a positive power value. Current sensors are typically mounted so that the power counting arrow points from the energy source to the consumer, so that energy consumption is counted positively in the balance energy counter. The current direction can also be corrected in software in ETS.

Current transformers from other manufacturers can also be used. Please note the information in the next section.

The KNX bus is connected to the black/red terminal. The SmartMeter² is powered exclusively by the KNX bus. Therefore, ETS parameterization can also be carried out even if no 230 V mains voltage is yet present at the device.

Use of Current Transformers from Other Manufacturers

Both SmartMeter² 85 A devices and SmartMeter² 800 A devices can also be operated with current transformers from other manufacturers.

Caution: Only current transformers with a secondary current below 58 mA may be used. Transformers with a higher secondary current can damage the device.

The primary current and secondary current of the current transformers used must be parameterized in ETS. Only after this parameterization will the measured values be displayed correctly on the display.

Measurements

The SmartMeter² can acquire measured values per phase as well as a three-phase total value. The measured values that are actually available are enabled through parameterization.

Enabling a measured value makes all associated communication objects visible in ETS. For each measured value, the value change from which a new telegram is sent can be specified separately. For a measured value to be sent cyclically, on change, or on request, the measurement for the respective channel must be activated using the corresponding checkbox. This allows the bus load to be adapted to the actual requirements of the installation.

In addition, a common interval for cyclic sending of measured values can be configured. This interval applies to all enabled measurements. If the optional request of measured values via a communication object is used, all enabled measured values are also sent together.

For voltage measurement, an additional alarm for voltage failure can be provided per phase. This means the device can not only deliver measured values, but can also signal changes in the network state at an early stage.

For active power measurement, separate unsigned communication objects for generation and consumption can also be enabled on the **General** tab.

Energy Counters

Based on the measured values, the SmartMeter² provides energy counters per phase and as a three-phase total counter. These counters are suitable for recording consumption and generation values and for forwarding them to visualizations, higher-level logic functions, or energy management functions.

Enabling an energy counter makes all associated communication objects visible in ETS. For each counter value, the change from which a new telegram is sent can be specified separately. For a counter value to be sent cyclically, on change, or on request, the counter for the respective channel must be activated using the corresponding checkbox. In addition, a common interval for cyclic sending of all enabled counter values is available.

Using the optional request object, all enabled counter values can be sent together. To synchronize existing counter readings, it is also possible to write to the corresponding counter objects. For a counter to accept the value received via the bus, the **Write** flag must be set in ETS.

Sending to the Reset communication object resets all energy counters of one channel. However, the energy counters are retained after a factory reset or firmware update.

Intermediate Counters

Intermediate counters are used to accumulate input values over a defined period and then reset automatically. They are particularly suitable for partial consumption or partial cost values, for example per day, per week, or for other freely selected evaluation periods.

An intermediate counter works like an additional energy or cost counter, but it receives its input value from a selected source and is additionally reset according to the parameterized reset interval. This makes it easy to record, for example, daily energy costs or daily consumption values.

The value of an intermediate counter is sent automatically at every reset. This means completed partial values are immediately available for further evaluation or visualization.

Energy Costs

The SmartMeter² can calculate energy costs based on its measured values and provide them as values. Cost calculation is performed using a predefined price in **ct/kWh**. For dynamic tariffs, the price can alternatively be set via a communication object from the bus.

If a price is provided via the bus, it can be defined whether this value is adopted permanently. If the

function **Permanently adopt price from bus** is not activated, the device uses the price stored in the parameterization again after a restart.

Enabling a cost counter makes all associated communication objects visible in ETS. For each cost value, the value change from which a new telegram is sent can be specified separately. For a cost value to be sent cyclically, on change, or on request, the cost counter for the respective channel must be activated using the corresponding checkbox. A common interval for cyclic sending and a change threshold can also be specified. Using the optional request object, all enabled cost values can be transmitted together.

Sending to the Reset communication object resets all cost counters of one channel. However, the cost counters are retained after a factory reset or firmware update.

Energy Management

Energy management is used to output telegrams, enables, or setpoints in stages depending on a threshold. Up to 2 independent energy management blocks are available in the device for this purpose. Each block can manage up to 6 stages. Each stage can provide its own output telegrams or setpoint values.

Operating Principle

An energy management block continuously monitors a parameterized input value. As soon as the defined trigger condition is met, enabled stages are activated according to their priority. If the input value leaves the trigger range again, active stages are switched off again.

The activation of stages is intentionally performed step by step. After each activation, the input situation is evaluated again. Additional stages are therefore only activated if the trigger condition is still met after the previous action. This is particularly important for PV surplus applications, because a load enabled or controlled via telegrams can immediately change the available surplus.

Trigger Parameterization

For each energy management block, the global trigger parameters are defined first.

- **Input value:** Internal SmartMeter² measured values and price values or an external communication object can be used as the trigger. In particular, the following are available:
 - Active power L1
 - Active power L2
 - Active power L3
 - Three-phase active power
 - Energy consumption price
 - Energy generation price
 - Reactive energy consumption price

- Communication object
- **CO type:** If a communication object is used as the input value, its data type must be selected accordingly. Supported are 1-byte, 2-byte, and 4-byte values, both integer and floating-point.
- **Threshold:** The threshold is entered to match the selected data type.
- **Trigger on:** Defines whether activation is performed when the threshold is exceeded or fallen below.
- **Delay between switching stages:** After each activation or deactivation of a stage, the block waits for the parameterized time before the next regular action is executed.

If a communication object is used as the trigger, the energy management works with the last value received from this object. Without a valid input value, no trigger decision can be made.

Parameterization per Stage

Each stage is enabled and parameterized separately. This allows the block to implement simple enables and switching telegrams as well as more complex multi-stage setpoint or enable logics.

- **Enable stage:** Only enabled stages are taken into account.
- **Label for COs:** This label makes it easier to assign the stage-related communication objects in ETS.
- **Priority:** The priority determines the activation order. Higher priorities are preferably activated earlier and deactivated later. This means that a priority of 6 is activated in preference to a priority of 5.
- **Minimum runtime:** After activation, the stage remains active for at least the parameterized time. Only after that may it be switched off again.
- **Enables per day:** Limits the number of daily activations. The value 0 means unlimited.
- **Dead time:** After switching off, the stage remains blocked for the parameterized time and cannot be activated again during this period.
- **Enable lock object:** Activates an additional lock object for this stage if required.
- **Polarity of the lock object:** Defines whether 0 or 1 represents the locked state.

Stage Switching Logic

A stage can be activated if all of the following conditions are met:

- The energy management trigger condition is met.
- The stage is enabled.
- The stage is not blocked via its lock object.
- Any running dead time has expired.
- The maximum number of daily enables has not yet been reached.

If several inactive stages can be activated at the same time, the highest available priority is selected first. All stages with this priority can be activated together. Only after the delay between stages has

elapsed can the next lower priority follow, provided that the trigger condition is still met at that time.

An active stage can be deactivated if its minimum runtime has elapsed and one of the following conditions applies:

- The trigger condition is no longer met.
- The stage's lock object is active.

If several active stages can be deactivated at the same time, the stages with the lowest priority are deactivated first. As a result, a higher-priority function or enable remains active longer than a lower-priority one when the input value decreases.

If an active stage is locked, it is deactivated after its minimum runtime has elapsed. This deactivation takes place without an additional delay between stages. A locked inactive stage is not activated.

Telegrams per Stage

Up to 4 telegrams can be parameterized per stage. Each telegram has:

- a telegram type
- a value for activation
- a value for deactivation

This allows a stage to send specifically different values when activated and deactivated. Supported telegram types include the following:

- Switching (DPT 1.001)
- Bool (DPT 1.002)
- Percentage value (DPT 5.001)
- Temperature value (DPT 9.001)
- DHW Mode (DPT 20.103)
- DPT 20.XXX
- Current (DPT 14.019)
- Power (DPT 14.056)

This allows the energy management to transmit switching telegrams, setpoints, or operating modes to other devices without acting as an actuator itself.

Feedback and Auxiliary Objects

For each stage, additional communication objects are also available to monitor or influence the current operating state. These include in particular:

- Lock object of the stage
- Remaining cycles

- Minimum remaining runtime
- Operating hours counter day
- Operating hours counter total
- Priority

This means that the priority can not only be parameterized, but can also be specified via communication objects if required. The counter and remaining runtime objects simplify diagnostics, visualization, and higher-level logic functions.

Practical Example: PV Surplus

Surplus energy from the PV system should be used within the building wherever possible instead of being fed into the public grid. The active power measured by the SmartMeter² at the building's connection point to the public grid is used as the input value. In this example, feed-in is represented as negative power, as is common practice. The trigger condition is therefore set to **Trigger on falling below** with a threshold of **-2000 W**.

In the example, stage 1 sends an enable for an immersion heater with **1500 W**, and stage 2 sends a charging enable for an electric vehicle with **4200 W**. The device itself does not switch these loads directly, but only outputs the corresponding telegrams or enables on the bus.

In the morning, the measured value at the grid connection point drops below **-2000 W** for the first time. This initially activates stage 1. If the immersion heater accepts the enable, the measured value shifts back toward **0 W** because of the additional load. In the example, the value therefore rises immediately from around **-2.0 kW** to around **-0.5 kW**. The trigger condition is then no longer met, so stage 1 is switched off again after its minimum runtime has elapsed.

As the PV surplus continues to increase, the value later falls below the threshold again. This means stage 1 can be activated again first and, after the delay between stage switching has elapsed, stage 2 can also be activated. If the electric vehicle also accepts the charging enable, its load also reduces the feed-in toward **0 W**. As a result, the power value can temporarily be above the threshold again, so active stages are switched off again after their minimum runtime has elapsed, following the reverse priority logic.

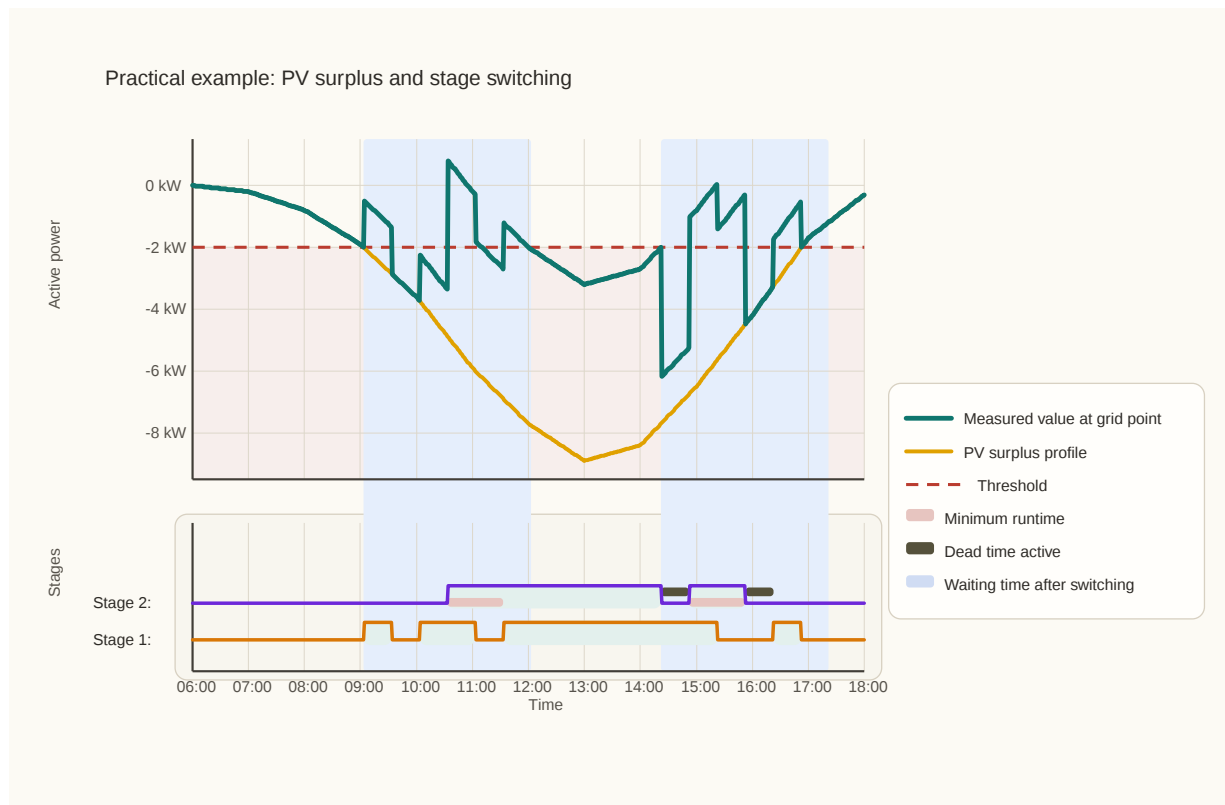


Figure 3. PV surplus profile and stage switching

Figure [Figure 3](#) shows this process over the course of an entire day. The orange curve represents the unchanged active power profile at the grid connection point. Negative values mean feed-in. The turquoise curve shows the resulting measured value at the grid connection point after the loads enabled by the energy management become effective.

Important for understanding the graphic: activations occur whenever the turquoise line crosses below the red threshold at **-2000 W**. The subsequent upward jump of the line only occurs once the load enabled via telegram is actually switched on and the feed-in at the grid connection point is reduced.

The lower diagram additionally shows the stages, their respective minimum runtime, and dead time. The waiting time after a stage switching action is marked as a light blue time window. This makes it clear why individual stages are temporarily not yet allowed to be reactivated or switched off again despite the trigger condition being met.

In the example, the illustrated daily profile results in a self-consumption energy use of around **29 kWh**. In this example, the PV system delivered around **50.0 kWh** of energy during the day. With this energy management, approximately **58 %** of the generated PV energy was used.

Grid-Friendly Operation

Grid-friendly load management helps keep the power drawn at the grid connection point within specified limits. For this purpose, the SmartMeter² measures the active power at the grid connection point and compares it with a parameterized upper power limit. Its integrated energy management can switch controllable loads off and on again in stages via KNX telegrams or reduce and subsequently increase their setpoints.

For controllable loads pursuant to Section 14a of the German Energy Industry Act (EnWG), a grid operator can specify an aggregate upper power limit for the connected controllable loads during a control event. A suitable control device transmits the corresponding signal to the KNX installation and thereby activates the parameterized limiting function of the SmartMeter². The SmartMeter² then controls the enabled stages based on the power measured at the grid connection point. Self-consumption from a PV system or battery storage is directly reflected in the measured grid import.

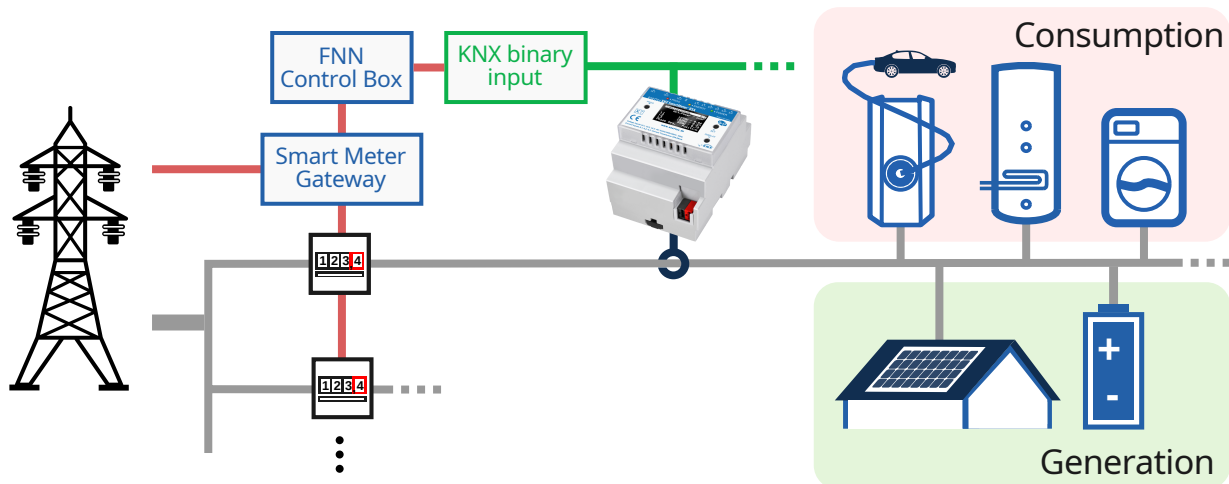


Figure 4. Schematic layout of grid-friendly power limitation

Figure Figure 4 shows the signal path from the grid operator's specification to the control of the controllable loads. The path shown in red leads from the grid operator side through the Smart Meter Gateway and the FNN Control Box to the customer installation. A KNX binary input detects the control signal from the FNN Control Box and transmits it to the KNX bus shown in green. The SmartMeter² uses this signal to enable the limiting function and sends the resulting switching or setpoint telegrams to the controllable loads via KNX.

The gray path represents the electrical power flow from the public power supply grid. The SmartMeter² measures the resulting grid import directly downstream of the main meter (the metering point operator's billing meter), which reflects the connected loads as well as local PV generation and battery storage power. This allows the energy management to take the power actually drawn from the grid into account when controlling the load stages.

Interaction with Energy Management

For power limitation, the three-phase active power or the three-phase active power consumption is used as the input value of the energy management block. The specified upper power limit is parameterized as the threshold, and the trigger condition is set to exceeding the threshold. The signal initiated by the grid operator can be applied to the stage lock objects or evaluated by an upstream logic function to determine whether the limiting stages are enabled.

If the measured grid import exceeds the upper power limit, the energy management first activates the enabled stage with the highest priority. For a limiting function, the activation telegram of this stage is parameterized to switch off a load or reduce its power consumption. After the delay between stage switching operations has elapsed, the SmartMeter² evaluates the grid import again. If it is still above the upper power limit, the next stage follows. This process continues until the grid import no longer exceeds the upper power limit or all available stages have been activated.

Once sufficient power reserve is available again, the energy management deactivates the stages in reverse priority order. The deactivation telegrams can switch the corresponding loads on again or increase their setpoints. With suitable dimensioning of the switchable load stages, switching delays, and power reserve, as well as reliable implementation of the KNX telegrams by the connected devices, the SmartMeter² can ensure compliance with the specified upper power limit. Priorities, minimum run-times, dead times, and lock objects make it possible to adapt the control process to the requirements of the installation.

The SmartMeter² does not communicate with the grid operator itself. Grid-side specifications must be transmitted to the KNX installation via a suitable control device. This can be achieved, for example, by transmitting a switching contact of the grid operator's control device to the KNX bus via a KNX binary input. The device replaces neither an intelligent metering system nor a control device and does not, on its own, establish conformity with the requirements of Section 14a EnWG.

Practical Example: Wallbox with Energy Management

A wallbox is integrated into an installation with PV generation together with other controllable loads. During grid-oriented control, the grid operator's signal is transmitted to the KNX installation by a suitable control device and enables the limiting stages of the SmartMeter². At the same time, the SmartMeter² continuously measures the active power at the grid connection point.

If the grid import exceeds the parameterized limit, the first stage reduces the charging current of the wallbox, for example. If this reduction is insufficient, the next stage can switch off another lower-priority load. After each stage switching operation, the SmartMeter² checks again whether the grid import complies with the upper power limit. As soon as sufficient power reserve is available again, the loads are switched back on step by step in accordance with the parameterized switching logic.

Factory Reset

The factory reset is triggered by pressing and holding the PROG button for a long time (approx. 10 seconds). The device then restarts, the application is unloaded, and all parameters are reset to the factory settings. The counter readings are retained in the device after a factory reset.

ETS Application

Specification

ETS: from version 5.7.4

Database File

The current ETS database file as well as the current product description can be found at <https://www.enertex.de/d-downloads.html>.

Parameters

Where the parameters are not self-explanatory, their description is integrated into the ETS context help.

Communication Objects

Note: Depending on the parameterization, some objects may not be available. Since all devices undergo an output test, the operating time and energy counters may differ from zero on delivery.

CO	Name	Function	Description	Length	Flags	Datatype
1	General - Output	Request date / time	Requests transmission of the current date and time values.	1 Bit	C—T-	1.017
2	General - Input	Date	Receives the current date to synchronize time-dependent functions.	3 Bytes	C-W-U	11.001
3	General - Input	Time	Receives the current time to synchronize time-dependent functions.	3 Bytes	C-W-U	10.001
4	General - Input	Date / time	Receives the current date and time to synchronize time-dependent functions.	8 Bytes	C-W-U	19.001
10	General - Input	Wake up device display	Wakes up the device display.	1 Bit	C-W--	1.017
11	General - Input	Switch off device LEDs	Controls switching off the device LEDs.	1 Bit	C-W--	1.001
20	Measurements - Input	Request measured values	Triggers transmission of the currently available measured values.	1 Bit	C-W--	1.017
21	Measurements - Output	Voltage L1	Sends the measured voltage of phase L1.	2 Bytes	CR-T-	9.020
		Voltage L1	Sends the measured voltage of phase L1.	4 Bytes	CR-T-	14.027
22	Measurements - Output	Current L1	Sends the measured current of phase L1.	2 Bytes	CR-T-	9.021
		Current L1	Sends the measured current of phase L1.	4 Bytes	CR-T-	14.019
23	Measurements - Output	Mains frequency	Sends the measured mains frequency.	4 Bytes	CR-T-	14.033
24	Measurements - Output	Apparent power L1	Sends the measured apparent power of phase L1.	4 Bytes	CR-T-	14.080
25	Measurements - Output	Active power generation L1	Sends the currently measured active power during feed-in on phase L1.	4 Bytes	CR-T-	14.056
26	Measurements - Output	Active power consumption L1	Sends the currently measured active power drawn from the grid on phase L1.	4 Bytes	CR-T-	14.056
27	Measurements - Output	Active power L1	Sends the currently measured active power of phase L1.	4 Bytes	CR-T-	14.056
28	Measurements - Output	Reactive power L1	Sends the measured reactive power of phase L1.	4 Bytes	CR-T-	14.056
29	Measurements - Output	Power factor L1	Sends the measured power factor of phase L1.	4 Bytes	CR-T-	14.057
30	Measurements - Output	THDU L1	Sends the total harmonic distortion of the voltage (THDU) of phase L1.	2 Bytes	CR-T-	8.010
31	Measurements - Output	THDI L1	Sends the total harmonic distortion of the current (THDI) of phase L1.	2 Bytes	CR-T-	8.010
32	Measurements - Output	Voltage L2	Sends the measured voltage of phase L2.	2 Bytes	CR-T-	9.020
		Voltage L2	Sends the measured voltage of phase L2.	4 Bytes	CR-T-	14.027
33	Measurements - Output	Current L2	Sends the measured current of phase L2.	2 Bytes	CR-T-	9.021
		Current L2	Sends the measured current of phase L2.	4 Bytes	CR-T-	14.019
34	Measurements - Output	Apparent power L2	Sends the measured apparent power of phase L2.	4 Bytes	CR-T-	14.080
35	Measurements - Output	Active power generation L2	Sends the currently measured active power during feed-in on phase L2.	4 Bytes	CR-T-	14.056
36	Measurements - Output	Active power consumption L2	Sends the currently measured active power drawn from the grid on phase L2.	4 Bytes	CR-T-	14.056

CO	Name	Function	Description	Length	Flags	Datatype
37	Measurements - Output	Active power L2	Sends the currently measured active power of phase L2.	4 Bytes	CR-T-	14.056
38	Measurements - Output	Reactive power L2	Sends the measured reactive power of phase L2.	4 Bytes	CR-T-	14.056
39	Measurements - Output	Power factor L2	Sends the measured power factor of phase L2.	4 Bytes	CR-T-	14.057
40	Measurements - Output	THDU L2	Sends the total harmonic distortion of the voltage (THDU) of phase L2.	2 Bytes	CR-T-	8.010
41	Measurements - Output	THDI L2	Sends the total harmonic distortion of the current (THDI) of phase L2.	2 Bytes	CR-T-	8.010
42	Measurements - Output	Voltage L3	Sends the measured voltage of phase L3.	2 Bytes	CR-T-	9.020
		Voltage L3	Sends the measured voltage of phase L3.	4 Bytes	CR-T-	14.027
43	Measurements - Output	Current L3	Sends the measured current of phase L3.	2 Bytes	CR-T-	9.021
		Current L3	Sends the measured current of phase L3.	4 Bytes	CR-T-	14.019
44	Measurements - Output	Apparent power L3	Sends the measured apparent power of phase L3.	4 Bytes	CR-T-	14.080
45	Measurements - Output	Active power generation L3	Sends the currently measured active power during feed-in on phase L3.	4 Bytes	CR-T-	14.056
46	Measurements - Output	Active power consumption L3	Sends the currently measured active power drawn from the grid on phase L3.	4 Bytes	CR-T-	14.056
47	Measurements - Output	Active power L3	Sends the currently measured active power of phase L3.	4 Bytes	CR-T-	14.056
48	Measurements - Output	Reactive power L3	Sends the measured reactive power of phase L3.	4 Bytes	CR-T-	14.056
49	Measurements - Output	Power factor L3	Sends the measured power factor of phase L3.	4 Bytes	CR-T-	14.057
50	Measurements - Output	THDU L3	Sends the total harmonic distortion of the voltage (THDU) of phase L3.	2 Bytes	CR-T-	8.010
51	Measurements - Output	THDI L3	Sends the total harmonic distortion of the current (THDI) of phase L3.	2 Bytes	CR-T-	8.010
52	Measurements - Output	neutral current	Sends the measured current in the neutral conductor.	2 Bytes	CR-T-	9.021
		neutral current	Sends the measured current in the neutral conductor.	4 Bytes	CR-T-	14.019
53	Measurements - Output	Apparent power 3-phase	Sends the measured apparent power of the three-phase system.	4 Bytes	CR-T-	14.080
54	Measurements - Output	Active power generation 3-phase	Sends the currently measured active power during feed-in of the three-phase system.	4 Bytes	CR-T-	14.056
55	Measurements - Output	Active power consumption 3-phase	Sends the currently measured active power drawn from the grid by the three-phase system.	4 Bytes	CR-T-	14.056
56	Measurements - Output	Active power 3-phase	Sends the currently measured active power of the three-phase system.	4 Bytes	CR-T-	14.056
57	Measurements - Output	Reactive power 3-phase	Sends the measured reactive power of the three-phase system.	4 Bytes	CR-T-	14.056
58	Measurements - Output	Power factor 3-phase	Sends the measured power factor of the three-phase system.	4 Bytes	CR-T-	14.057
59	Measurements - Output	Load imbalance 3-phase	Sends the measured unbalance of the three-phase system.	2 Bytes	CR-T-	8.010
60	Measurements - Output	Right-hand phase sequence	Sends whether a clockwise phase sequence has been detected.	1 Bit	CR-T-	1.002
61	Measurements - Output	Voltage failure L1	Sends whether a voltage failure has been detected on phase L1.	1 Bit	CR-T-	1.005
62	Measurements - Output	Voltage failure L2	Sends whether a voltage failure has been detected on phase L2.	1 Bit	CR-T-	1.005
63	Measurements - Output	Voltage failure L3	Sends whether a voltage failure has been detected on phase L3.	1 Bit	CR-T-	1.005

CO	Name	Function	Description	Length	Flags	Datatype
70	Counter - Input	Request counter values	Triggers transmission of the current energy and reactive energy counter readings.	1 Bit	C-W--	1.017
71	Counter - Output	Energy consumption L1 (Wh)	Sends the accumulated energy consumption for L1 in Wh.	4 Bytes	CR-T-	13.010
72	Counter - Output	Energy consumption L1 (kWh)	Sends the accumulated energy consumption for L1 in kWh.	4 Bytes	CR-T-	13.013
73	Counter - Output	Energy generation L1 (Wh)	Sends the accumulated energy generation for L1 in Wh.	4 Bytes	CR-T-	13.010
74	Counter - Output	Energy generation L1 (kWh)	Sends the accumulated energy generation for L1 in kWh.	4 Bytes	CR-T-	13.013
75	Counter - Output	Energy balance L1 (Wh)	Sends the accumulated energy balance for L1 in Wh.	4 Bytes	CR-T-	13.010
76	Counter - Output	Energy balance L1 (kWh)	Sends the accumulated energy balance for L1 in kWh.	4 Bytes	CR-T-	13.013
77	Counter - Output	Reactive energy L1 (varh)	Sends the accumulated reactive energy for L1 in varh.	4 Bytes	CR-T-	13.012
78	Counter - Output	Reactive energy L1 (kvarh)	Sends the accumulated reactive energy for L1 in kvarh.	4 Bytes	CR-T-	13.015
79	Counter - Input	Reset counter L1	Resets the energy and reactive energy counters for L1.	1 Bit	C-W--	1.017
80	Counter - Output	Energy consumption L2 (Wh)	Sends the accumulated energy consumption for L2 in Wh.	4 Bytes	CR-T-	13.010
81	Counter - Output	Energy consumption L2 (kWh)	Sends the accumulated energy consumption for L2 in kWh.	4 Bytes	CR-T-	13.013
82	Counter - Output	Energy generation L2 (Wh)	Sends the accumulated energy generation for L2 in Wh.	4 Bytes	CR-T-	13.010
83	Counter - Output	Energy generation L2 (kWh)	Sends the accumulated energy generation for L2 in kWh.	4 Bytes	CR-T-	13.013
84	Counter - Output	Energy balance L2 (Wh)	Sends the accumulated energy balance for L2 in Wh.	4 Bytes	CR-T-	13.010
85	Counter - Output	Energy balance L2 (kWh)	Sends the accumulated energy balance for L2 in kWh.	4 Bytes	CR-T-	13.013
86	Counter - Output	Reactive energy L2 (varh)	Sends the accumulated reactive energy for L2 in varh.	4 Bytes	CR-T-	13.012
87	Counter - Output	Reactive energy L2 (kvarh)	Sends the accumulated reactive energy for L2 in kvarh.	4 Bytes	CR-T-	13.015
88	Counter - Input	Reset counter L2	Resets the energy and reactive energy counters for L2.	1 Bit	C-W--	1.017
89	Counter - Output	Energy consumption L3 (Wh)	Sends the accumulated energy consumption for L3 in Wh.	4 Bytes	CR-T-	13.010
90	Counter - Output	Energy consumption L3 (kWh)	Sends the accumulated energy consumption for L3 in kWh.	4 Bytes	CR-T-	13.013
91	Counter - Output	Energy generation L3 (Wh)	Sends the accumulated energy generation for L3 in Wh.	4 Bytes	CR-T-	13.010
92	Counter - Output	Energy generation L3 (kWh)	Sends the accumulated energy generation for L3 in kWh.	4 Bytes	CR-T-	13.013
93	Counter - Output	Energy balance L3 (Wh)	Sends the accumulated energy balance for L3 in Wh.	4 Bytes	CR-T-	13.010
94	Counter - Output	Energy balance L3 (kWh)	Sends the accumulated energy balance for L3 in kWh.	4 Bytes	CR-T-	13.013
95	Counter - Output	Reactive energy L3 (varh)	Sends the accumulated reactive energy for L3 in varh.	4 Bytes	CR-T-	13.012
96	Counter - Output	Reactive energy L3 (kvarh)	Sends the accumulated reactive energy for L3 in kvarh.	4 Bytes	CR-T-	13.015
97	Counter - Input	Reset counter L3	Resets the energy and reactive energy counters for L3.	1 Bit	C-W--	1.017
98	Counter - Output	Energy consumption 3-phase (Wh)	Sends the accumulated energy consumption for the three-phase system in Wh.	4 Bytes	CR-T-	13.010

CO	Name	Function	Description	Length	Flags	Datatype
99	Counter - Output	Energy consumption 3-phase (kWh)	Sends the accumulated energy consumption for the three-phase system in kWh.	4 Bytes	CR-T-	13.013
100	Counter - Output	Energy generation 3-phase (Wh)	Sends the accumulated energy generation for the three-phase system in Wh.	4 Bytes	CR-T-	13.010
101	Counter - Output	Energy generation 3-phase (kWh)	Sends the accumulated energy generation for the three-phase system in kWh.	4 Bytes	CR-T-	13.013
102	Counter - Output	Energy balance 3-phase (Wh)	Sends the accumulated energy balance for the three-phase system in Wh.	4 Bytes	CR-T-	13.010
103	Counter - Output	Energy balance 3-phase (kWh)	Sends the accumulated energy balance for the three-phase system in kWh.	4 Bytes	CR-T-	13.013
104	Counter - Output	Reactive energy 3-phase (varh)	Sends the accumulated reactive energy for the three-phase system in varh.	4 Bytes	CR-T-	13.012
105	Counter - Output	Reactive energy 3-phase (kvarh)	Sends the accumulated reactive energy for the three-phase system in kvarh.	4 Bytes	CR-T-	13.015
106	Counter - Input	Reset 3-phase counter	Resets the energy and reactive energy counters for the three-phase system.	1 Bit	C-W--	1.017
110	Costs - Input	Request cost values	Triggers transmission of the currently calculated cost values.	1 Bit	C-W--	1.017
111	Costs - Output	Energy consumption costs L1	Sends the calculated energy consumption costs for L1.	4 Bytes	CR-T-	
112	Costs - Output	Energy generation costs L1	Sends the calculated costs or credits for energy generation for L1.	4 Bytes	CR-T-	
113	Costs - Output	Reactive energy costs L1	Sends the calculated reactive energy costs for L1.	4 Bytes	CR-T-	
114	Costs - Input	Reset costs L1	Resets the cost counters for L1.	1 Bit	C-W--	1.017
115	Costs - Output	Energy consumption costs L2	Sends the calculated energy consumption costs for L2.	4 Bytes	CR-T-	
116	Costs - Output	Energy generation costs L2	Sends the calculated costs or credits for energy generation for L2.	4 Bytes	CR-T-	
117	Costs - Output	Reactive energy costs L2	Sends the calculated reactive energy costs for L2.	4 Bytes	CR-T-	
118	Costs - Input	Reset costs L2	Resets the cost counters for L2.	1 Bit	C-W--	1.017
119	Costs - Output	Energy consumption costs L3	Sends the calculated energy consumption costs for L3.	4 Bytes	CR-T-	
120	Costs - Output	Energy generation costs L3	Sends the calculated costs or credits for energy generation for L3.	4 Bytes	CR-T-	
121	Costs - Output	Reactive energy costs L3	Sends the calculated reactive energy costs for L3.	4 Bytes	CR-T-	
122	Costs - Input	Reset costs L3	Resets the cost counters for L3.	1 Bit	C-W--	1.017
123	Costs - Output	Energy consumption costs 3-phase	Sends the calculated energy consumption costs for the three-phase system.	4 Bytes	CR-T-	
124	Costs - Output	Energy generation costs 3-phase	Sends the calculated costs or credits for energy generation for the three-phase system.	4 Bytes	CR-T-	
125	Costs - Output	Reactive energy costs 3-phase	Sends the calculated reactive energy costs for the three-phase system.	4 Bytes	CR-T-	
126	Costs - Input	Reset 3-phase costs	Resets the cost counters for the three-phase system.	1 Bit	C-W--	1.017
127	Costs - Input	Price energy consumption (0.01 cent/kWh)	Receives the tariff for consumed energy in 0.01 cent/kWh.	2 Bytes	C-W--	
128	Costs - Input	Price energy generation (0.01 cent/kWh)	Receives the tariff for generated energy in 0.01 cent/kWh.	2 Bytes	C-W--	
129	Costs - Input	Price reactive energy (0.01 cent/kWh)	Receives the tariff for calculating reactive energy costs.	2 Bytes	C-W--	
135	Submeter - Output	Value submeter 1	Sends the current value of intermediate counter 1.	4 Bytes	CR-T-	13.001
		Value submeter 1	Sends the current value of intermediate counter 1.	4 Bytes	CR-T-	13.010

CO	Name	Function	Description	Length	Flags	Datatype
		Value submeter 1	Sends the current value of intermediate counter 1.	4 Bytes	CR-T-	13.012
		Value submeter 1	Sends the current value of intermediate counter 1.	4 Bytes	CR-T-	13.013
		Value submeter 1	Sends the current value of intermediate counter 1.	4 Bytes	CR-T-	13.015
136	Submeter - Input	Reset submeter 1	Resets intermediate counter 1.	1 Bit	C-W--	1.017
137	Submeter - Output	Value submeter 2	Sends the current value of intermediate counter 2.	4 Bytes	CR-T-	13.001
		Value submeter 2	Sends the current value of intermediate counter 2.	4 Bytes	CR-T-	13.010
		Value submeter 2	Sends the current value of intermediate counter 2.	4 Bytes	CR-T-	13.012
		Value submeter 2	Sends the current value of intermediate counter 2.	4 Bytes	CR-T-	13.013
		Value submeter 2	Sends the current value of intermediate counter 2.	4 Bytes	CR-T-	13.015
138	Submeter - Input	Reset submeter 2	Resets intermediate counter 2.	1 Bit	C-W--	1.017
139	Submeter - Output	Value submeter 3	Sends the current value of intermediate counter 3.	4 Bytes	CR-T-	13.001
		Value submeter 3	Sends the current value of intermediate counter 3.	4 Bytes	CR-T-	13.010
		Value submeter 3	Sends the current value of intermediate counter 3.	4 Bytes	CR-T-	13.012
		Value submeter 3	Sends the current value of intermediate counter 3.	4 Bytes	CR-T-	13.013
		Value submeter 3	Sends the current value of intermediate counter 3.	4 Bytes	CR-T-	13.015
140	Submeter - Input	Reset submeter 3	Resets intermediate counter 3.	1 Bit	C-W--	1.017
141	Submeter - Output	Value submeter 4	Sends the current value of intermediate counter 4.	4 Bytes	CR-T-	13.001
		Value submeter 4	Sends the current value of intermediate counter 4.	4 Bytes	CR-T-	13.010
		Value submeter 4	Sends the current value of intermediate counter 4.	4 Bytes	CR-T-	13.012
		Value submeter 4	Sends the current value of intermediate counter 4.	4 Bytes	CR-T-	13.013
		Value submeter 4	Sends the current value of intermediate counter 4.	4 Bytes	CR-T-	13.015
142	Submeter - Input	Reset submeter 4	Resets intermediate counter 4.	1 Bit	C-W--	1.017
143	Submeter - Output	Value submeter 5	Sends the current value of intermediate counter 5.	4 Bytes	CR-T-	13.001
		Value submeter 5	Sends the current value of intermediate counter 5.	4 Bytes	CR-T-	13.010
		Value submeter 5	Sends the current value of intermediate counter 5.	4 Bytes	CR-T-	13.012
		Value submeter 5	Sends the current value of intermediate counter 5.	4 Bytes	CR-T-	13.013
		Value submeter 5	Sends the current value of intermediate counter 5.	4 Bytes	CR-T-	13.015
144	Submeter - Input	Reset submeter 5	Resets intermediate counter 5.	1 Bit	C-W--	1.017
145	Submeter - Output	Value submeter 6	Sends the current value of intermediate counter 6.	4 Bytes	CR-T-	13.001
		Value submeter 6	Sends the current value of intermediate counter 6.	4 Bytes	CR-T-	13.010
		Value submeter 6	Sends the current value of intermediate counter 6.	4 Bytes	CR-T-	13.012

CO	Name	Function	Description	Length	Flags	Datatype
		Value submeter 6	Sends the current value of intermediate counter 6.	4 Bytes	CR-T-	13.013
		Value submeter 6	Sends the current value of intermediate counter 6.	4 Bytes	CR-T-	13.015
146	Submeter - Input	Reset submeter 6	Resets intermediate counter 6.	1 Bit	C-W--	1.017
150	Logic 1 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
151	Logic 1 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
152	Logic 1 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
153	Logic 1 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
154	Logic 1 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
155	Logic 2 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002

CO	Name	Function	Description	Length	Flags	Datatype
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
156	Logic 2 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
157	Logic 2 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
158	Logic 2 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
159	Logic 2 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
160	Logic 3 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001

CO	Name	Function	Description	Length	Flags	Datatype
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
161	Logic 3 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
162	Logic 3 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
163	Logic 3 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
164	Logic 3 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
165	Logic 4 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102

CO	Name	Function	Description	Length	Flags	Datatype
166	Logic 4 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
167	Logic 4 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
168	Logic 4 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
169	Logic 4 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
170	Logic 5 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
171	Logic 5 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
172	Logic 5 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
173	Logic 5 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
174	Logic 5 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002

CO	Name	Function	Description	Length	Flags	Datatype
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
175	Logic 6 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
176	Logic 6 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
177	Logic 6 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
178	Logic 6 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
179	Logic 6 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
180	Logic 7 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002

CO	Name	Function	Description	Length	Flags	Datatype
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
181	Logic 7 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
182	Logic 7 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
183	Logic 7 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
184	Logic 7 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
185	Logic 8 (...) - Input	Logic gate input 1	Receives the value for input 1 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter lock function	Receives the converter lock signal; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Lock module lock function	Receives the lock signal of the lock function; the lock polarity is parameterized.	1 Bit	C-W-U	1.002
		Comparator input	Receives the input value to be compared.	4 Bit	C-W-U	3.007
		Threshold switch input	Receives the input value to be monitored.	4 Bit	C-W-U	3.007
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	5.010
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	5.010

CO	Name	Function	Description	Length	Flags	Datatype
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	7.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	7.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	8.001
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	8.001
		Comparator input	Receives the input value to be compared.	2 Bytes	C-W-U	9.000
		Threshold switch input	Receives the input value to be monitored.	2 Bytes	C-W-U	9.000
		Comparator input	Receives the input value to be compared.	4 Bytes	C-W-U	13.001
		Threshold switch input	Receives the input value to be monitored.	4 Bytes	C-W-U	13.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	18.001
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	18.001
		Comparator input	Receives the input value to be compared.	1 Byte	C-W-U	20.102
		Threshold switch input	Receives the input value to be monitored.	1 Byte	C-W-U	20.102
186	Logic 8 (...) - Input	Logic gate input 2	Receives the value for input 2 of the parameterized logic gate.	1 Bit	C-W-U	1.002
		Converter input	Receives the input value to be processed by the converter.	1 Bit	C-W-U	1.002
		Lock module input	Receives the input value of the lock function.	1 Bit	C-W-U	1.002
187	Logic 8 (...) - Input	Logic gate input 3	Receives the value for input 3 of the parameterized logic gate.	1 Bit	C-W-U	1.002
188	Logic 8 (...) - Input	Logic gate input 4	Receives the value for input 4 of the parameterized logic gate.	1 Bit	C-W-U	1.002
189	Logic 8 (...) - Output	Logic gate output	Sends the result of the parameterized logic gate.	1 Bit	CR-TU	1.002
		Lock module output	Sends the output value of the lock function according to its lock status.	1 Bit	CR-TU	1.002
		Comparator output	Sends the comparison result according to the parameterized comparison conditions.	1 Bit	CR-TU	1.002
		Threshold switch output	Sends the switching state according to the parameterized thresholds.	1 Bit	CR-TU	1.002
		Converter output	Sends the output value generated by the converter according to its parameterization.	1 Byte	CR-TU	5.001
200	EM 1 - Input	Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	1 Byte	C-W--	5.001
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	1 Byte	C-W--	5.003
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	1 Byte	C-W--	5.010
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	1 Byte	C-W--	6.010
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	2 Bytes	C-W--	7.001
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	2 Bytes	C-W--	8.001
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	2 Bytes	C-W--	9.000
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	4 Bytes	C-W--	12.000
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	4 Bytes	C-W--	13.000

CO	Name	Function	Description	Length	Flags	Datatype
		Energy management 1 trigger	Receives the trigger value for energy management block 1 and evaluates it against the parameterized threshold.	4 Bytes	C-W--	14.000
201	EM 1 - Output	Time to next stage switching	Sends the remaining waiting time between two stage switching operations.	4 Bytes	CR-T-	12.100
202	EM 1 - Input	Reset operating hours counter	Resets the daily and total operating hour counters of all stages in the associated energy management block.	1 Bit	C-W--	1.017
205	EM 1 - Stage 1 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
206	EM 1 - Stage 1 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
207	EM 1 - Stage 1 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
208	EM 1 - Stage 1 - Output	Minimum remaining runtime	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
209	EM 1 - Stage 1 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
210	EM 1 - Stage 1 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
211	EM 1 - Stage 1 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
212	EM 1 - Stage 1 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
213	EM 1 - Stage 1 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
214	EM 1 - Stage 1 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
215	EM 1 - Stage 1 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
218	EM 1 - Stage 2 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
219	EM 1 - Stage 2 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
220	EM 1 - Stage 2 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
221	EM 1 - Stage 2 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
222	EM 1 - Stage 2 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
223	EM 1 - Stage 2 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
224	EM 1 - Stage 2 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
225	EM 1 - Stage 2 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
226	EM 1 - Stage 2 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
227	EM 1 - Stage 2 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
228	EM 1 - Stage 2 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
231	EM 1 - Stage 3 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
232	EM 1 - Stage 3 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100

CO	Name	Function	Description	Length	Flags	Datatype
233	EM 1 - Stage 3 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
234	EM 1 - Stage 3 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
235	EM 1 - Stage 3 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
236	EM 1 - Stage 3 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
237	EM 1 - Stage 3 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
238	EM 1 - Stage 3 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
239	EM 1 - Stage 3 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
240	EM 1 - Stage 3 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
241	EM 1 - Stage 3 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
244	EM 1 - Stage 4 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
245	EM 1 - Stage 4 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
246	EM 1 - Stage 4 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
247	EM 1 - Stage 4 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
248	EM 1 - Stage 4 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
249	EM 1 - Stage 4 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
250	EM 1 - Stage 4 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
251	EM 1 - Stage 4 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
252	EM 1 - Stage 4 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
253	EM 1 - Stage 4 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
254	EM 1 - Stage 4 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
257	EM 1 - Stage 5 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
258	EM 1 - Stage 5 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
259	EM 1 - Stage 5 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
260	EM 1 - Stage 5 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
261	EM 1 - Stage 5 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
262	EM 1 - Stage 5 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100

CO	Name	Function	Description	Length	Flags	Datatype
263	EM 1 - Stage 5 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W-	1.003
264	EM 1 - Stage 5 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
265	EM 1 - Stage 5 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
266	EM 1 - Stage 5 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
267	EM 1 - Stage 5 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
270	EM 1 - Stage 6 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
271	EM 1 - Stage 6 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
272	EM 1 - Stage 6 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
273	EM 1 - Stage 6 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
274	EM 1 - Stage 6 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
275	EM 1 - Stage 6 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
276	EM 1 - Stage 6 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
277	EM 1 - Stage 6 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
278	EM 1 - Stage 6 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103

CO	Name	Function	Description	Length	Flags	Datatype
279	EM 1 - Stage 6 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
280	EM 1 - Stage 6 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
286	EM 2 - Input	Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	1 Byte	C-W--	5.001
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	1 Byte	C-W--	5.003
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	1 Byte	C-W--	5.010
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	1 Byte	C-W--	6.010
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	2 Bytes	C-W--	7.001
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	2 Bytes	C-W--	8.001
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	2 Bytes	C-W--	9.000
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	4 Bytes	C-W--	12.000
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	4 Bytes	C-W--	13.000

CO	Name	Function	Description	Length	Flags	Datatype
		Energy management 2 trigger	Receives the trigger value for energy management block 2 and evaluates it against the parameterized threshold.	4 Bytes	C-W--	14.000
287	EM 2 - Output	Time to next stage switching	Sends the remaining waiting time between two stage switching operations.	4 Bytes	CR-T-	12.100
288	EM 2 - Input	Reset operating hours counter	Resets the daily and total operating hour counters of all stages in the associated energy management block.	1 Bit	C-W--	1.017
291	EM 2 - Stage 1 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
292	EM 2 - Stage 1 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
293	EM 2 - Stage 1 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
294	EM 2 - Stage 1 - Output	Minimum remaining runtime	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
295	EM 2 - Stage 1 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
296	EM 2 - Stage 1 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
297	EM 2 - Stage 1 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
298	EM 2 - Stage 1 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
299	EM 2 - Stage 1 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
300	EM 2 - Stage 1 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
301	EM 2 - Stage 1 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
304	EM 2 - Stage 2 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
305	EM 2 - Stage 2 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
306	EM 2 - Stage 2 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
307	EM 2 - Stage 2 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
308	EM 2 - Stage 2 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
309	EM 2 - Stage 2 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
310	EM 2 - Stage 2 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
311	EM 2 - Stage 2 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
312	EM 2 - Stage 2 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
313	EM 2 - Stage 2 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
314	EM 2 - Stage 2 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
317	EM 2 - Stage 3 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
318	EM 2 - Stage 3 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100

CO	Name	Function	Description	Length	Flags	Datatype
319	EM 2 - Stage 3 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
320	EM 2 - Stage 3 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
321	EM 2 - Stage 3 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
322	EM 2 - Stage 3 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
323	EM 2 - Stage 3 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
324	EM 2 - Stage 3 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
325	EM 2 - Stage 3 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
326	EM 2 - Stage 3 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
327	EM 2 - Stage 3 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
330	EM 2 - Stage 4 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
331	EM 2 - Stage 4 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
332	EM 2 - Stage 4 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
333	EM 2 - Stage 4 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
334	EM 2 - Stage 4 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
335	EM 2 - Stage 4 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
336	EM 2 - Stage 4 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
337	EM 2 - Stage 4 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
338	EM 2 - Stage 4 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
339	EM 2 - Stage 4 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
340	EM 2 - Stage 4 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
343	EM 2 - Stage 5 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
344	EM 2 - Stage 5 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
345	EM 2 - Stage 5 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
346	EM 2 - Stage 5 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
347	EM 2 - Stage 5 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
348	EM 2 - Stage 5 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100

CO	Name	Function	Description	Length	Flags	Datatype
349	EM 2 - Stage 5 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W-	1.003
350	EM 2 - Stage 5 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
351	EM 2 - Stage 5 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103
352	EM 2 - Stage 5 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
353	EM 2 - Stage 5 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001

CO	Name	Function	Description	Length	Flags	Datatype
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103
356	EM 2 - Stage 6 - Output	Operating hours counter total	Sends the accumulated total operating hours of the associated stage.	4 Bytes	CR-T-	13.100
357	EM 2 - Stage 6 - Output	Operating hours counter day	Sends the operating hours accumulated since the last day change of the associated stage.	4 Bytes	CR-T-	13.100
358	EM 2 - Stage 6 - Input	Priority	Specifies the priority of the associated stage; activation considers the highest available priority, while deactivation considers the lowest active priority.	1 Byte	C-W--	6.010
359	EM 2 - Stage 6 - Output	Minimum remaining run-time	Sends the remaining minimum runtime of the associated active stage.	4 Bytes	CR-T-	12.100
360	EM 2 - Stage 6 - Output	Remaining cycles	Sends the remaining number of permitted activations of the associated stage on the current day.	1 Byte	CR-T-	5.010
361	EM 2 - Stage 6 - Output	Dead time	Sends the remaining dead time until the associated stage can be activated again.	4 Bytes	CR-T-	12.100
362	EM 2 - Stage 6 - Input	Lock	Locks the associated stage according to the parameterized lock polarity and prevents its activation.	1 Bit	C-W--	1.003
363	EM 2 - Stage 6 - Output	Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 1	Sends the parameterized output telegram 1 of the associated stage.	1 Byte	C—T-	20.103
364	EM 2 - Stage 6 - Output	Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 2	Sends the parameterized output telegram 2 of the associated stage.	1 Byte	C—T-	20.103

CO	Name	Function	Description	Length	Flags	Datatype
365	EM 2 - Stage 6 - Output	Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 3	Sends the parameterized output telegram 3 of the associated stage.	1 Byte	C—T-	20.103
366	EM 2 - Stage 6 - Output	Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Bit	C—T-	1.002
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	5.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	2 Bytes	C—T-	9.001
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.019
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	4 Bytes	C—T-	14.056
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.000
		Telegram 4	Sends the parameterized output telegram 4 of the associated stage.	1 Byte	C—T-	20.103

Technical Data

Category	Characteristic	Value
Accuracy	Accuracy class active energy	Class 1 (1 %)
	Current measurement range 85 A variant	5 mA to 85 A
	Current measurement range 800 A variant	100 mA to 800 A

Category	Characteristic	Value
Voltage inputs	Input voltage	90 .. 240 V AC
	Grid frequency	50 / 60 Hz
	Maximum fuse protection	max. 63 A
	Input power	< 0.05 W per channel
	Connection type	Screw terminal, tightening torque: 0.5 Nm
	Conductor cross-section rigid	0.5 to 4.0 mm ²
	Conductor cross-section flexible without ferrule	0.5 to 4.0 mm ²
	Conductor cross-section flexible with ferrule	0.5 to 2.5 mm ²
Current transformer inputs	Maximum input current (secondary current of the current transformers)	max. 58 mA AC
	Connection type	Screw terminal, tightening torque: 0.5 Nm
	Conductor cross-section rigid	0.5 to 4.0 mm ²
	Conductor cross-section flexible without ferrule	0.5 to 4.0 mm ²
	Conductor cross-section flexible with ferrule	0.5 to 2.5 mm ²
KNX	Voltage	21 to 32 V DC
	Current consumption	< 20 mA, typically 17 mA
	Connection type	KNX terminal type 5.1
	Conductor diameter	0.8 mm solid conductor
Housing	Design	DIN rail housing for 35 mm mounting rail
	Width	4 SU
	Dimensions	70 × 89.6 × 62.9 mm (L × W × H)
	Degree of protection	IP20

Category	Characteristic	Value
Additional data	Area of application	For indoor use only
	Installation location	Only for operation inside a distribution board
	Protection class	II
	Overvoltage category	III
	Maximum ambient temperature	$t_a = 45\text{ °C}$
	Minimum ambient temperature	$t_{a,min} = -5\text{ °C}$
	Certification	KNX-certified
	Safety	Tested according to DIN EN 61010-1 and IEC 63044-3
	EMC and environment	Tested according to DIN EN 50491-5-2 (residential area), DIN EN 50491-5-3 (industrial area), and DIN EN 50491-2