

KW9M
Eco-POWER METER
Advanced Type

User's Manual

Protocol manual

Cautions for Your Safety

Read the manual carefully before installing, running and maintenance for proper operation. Before using, master the knowledge of the equipment, safety information and all of other notes.

This manual uses two safety flags to indicate different levels of danger.



WARNING

A handling error could cause serious physical injury to an operator and in the worst case could even be fatal.

- Always take precautions to ensure the overall safety of your system, so that the whole system remains safe in the event of failure of this product or other external factor.
- Do not use this product in areas with inflammable gas. It could lead to an explosion.
- Exposing this product to excessive heat or open flames could cause damage to the lithium battery or other electronic parts.
- Do not open the secondary side of CT during power on the primary side current. It might cause electric shock or CT breakdown.



CAUTION

A handling error could cause serious physical injury to an operator or damage to the equipment.

- To prevent abnormal exothermic heat or smoke generation, use this product at the values less than the maximum of the characteristics and performance that are assured in these specifications.
- Do not dismantle or remodel the product. It could lead to abnormal exothermic heat or smoke generation.
- Do not touch the terminal while turning on electricity. It could lead to an electric shock.
- Use the external devices to function the emergency stop and interlock circuit.
- Connect the wires or connectors securely. The loose connection might cause abnormal exothermic heat or smoke generation.
- Do not allow foreign matters such as liquid, flammable materials, metals to go into the inside of the product. It might cause exothermic heat or smoke generation.
- Do not undertake construction (such as connection and disconnection) while the power supply is on.
- Never remove the terminal block under applying current to load. It might cause electric shock or CT breakdown.
- Do not use at secondary side circuit of inverter. It might cause exothermic heat or damage.

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Introduction

Thank you very much indeed for purchasing
“KW9M Eco-POWER METER”.

In this manual, we explain the usage of “KW9M
Eco-POWER METER” in detail.

Please use it correctly after understanding the content
enough.

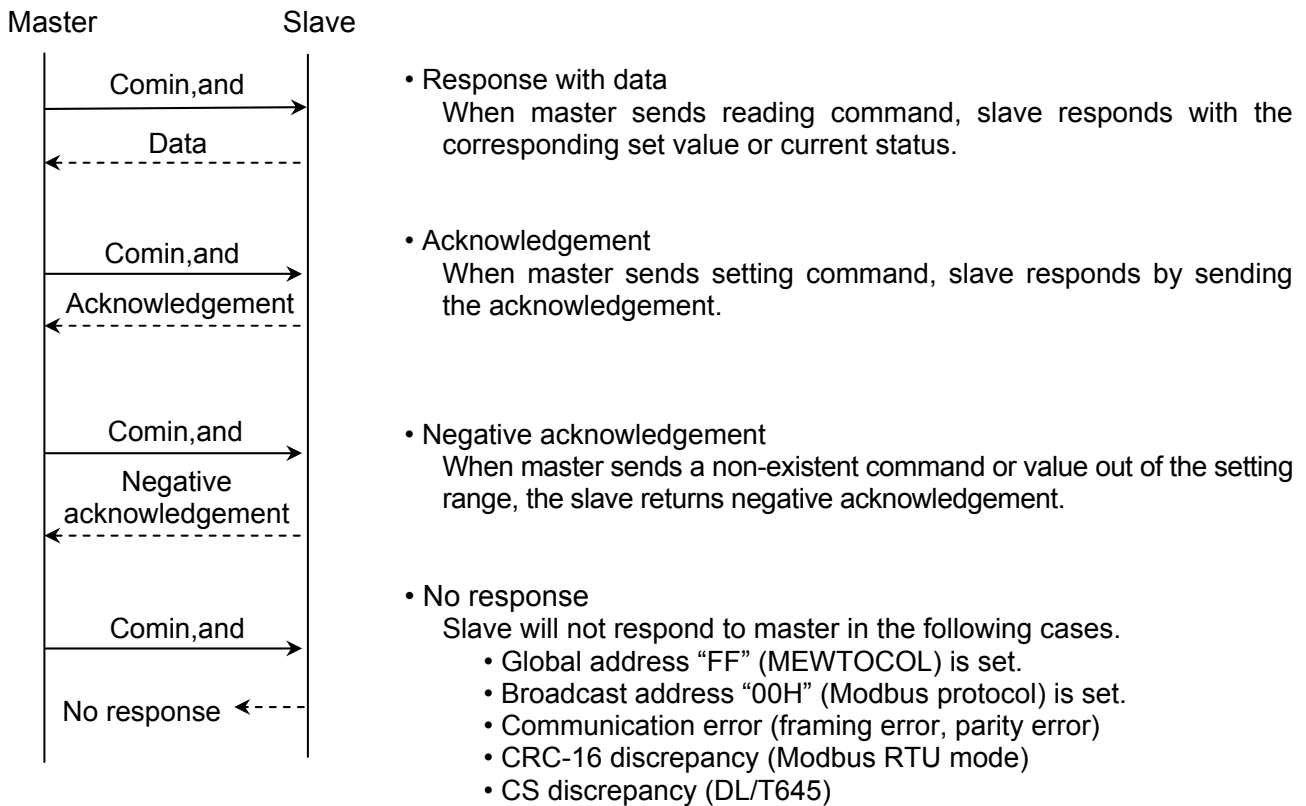
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Chapter 1 Communications

1.1 Communication Procedures

Communication starts with command transmission from the host computer (hereafter Master) and ends with the response of Eco-POWER METER (hereafter Slave).



1.2 Communication timing

- ◆ The minimum access time from the master is 1 sec. (Minimum time for update the data)
Eco-POWER METER may not response due to noise and so on, be sure to check that it receives the response from Eco-POWER METER.
- ◆ In order to improve the communication quality, we recommend to send the transmission again.

Communication timing of RS485

◇Eco-POWER METER (Slave) side

When Eco-POWER METER (Slave) starts transmission to RS485 communication line, it is arranged so as to provide an idle status transmission period of about 1 to 99ms (setting available) before sending the response to ensure the synchronization on the receiving side. After sending the response, master can disconnect the transmitter from the communication line within transmission period 20ms.

◇Master side (Cautions of setting a program)

At communication, keep the following conditions.

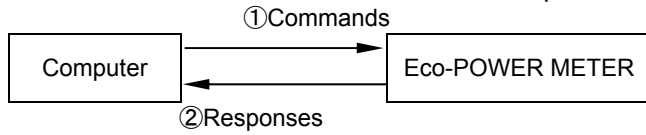
- 1) Set the program so that the master can disconnect the transmitter from the communication line within the transmission period of about 20ms after sending the command in preparation for reception of the response from Eco-POWER METER (Slave).
- 2) To avoid collision of transmissions between the master and Eco-POWER METER (Slave), send a next command after checking that the master received the response.

1.3 MEWTOCOL Communication

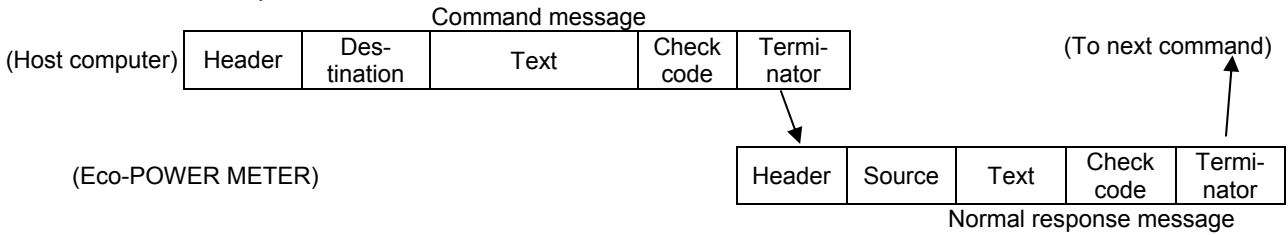
1.3.1 Overview of MEWTOCOL-COM (RS485)

◆Command and response functions

The computer sends commands (instructions) to Eco-POWER METER, and receives responses in return. This enables the computer and Eco-POWER METER to converse with each other, so that various kinds of information can be obtained and provided.



◆Command and response formats



◇Control codes

Name	Character	ASCII code	Explanation
Header	%	25H	Indicates the beginning of a message.
Command	#	23H	Indicates that the data comprises a command message.
Normal response	\$	24H	Indicates that the data comprises a normal response message.
Error response	!	21H	Indicates that the data comprises a response message when an error occurs.
Terminator	CR	0DH	Indicates the end of a message.

◇Destination and source AD (H), (L)

Two-digit decimal 01 to 99 (ASCII codes)

Command messages contain a station number for Eco-POWER METER that receives the message. When FF (ASCII code table) is used, however, the transmission is a global transmission (sent to all stations at once).

Note) When a global transmission is sent, no response to the command message is returned.

◇Block check code Bcc (H), (L)

Two-digit hexadecimal 00 to FF (ASCII codes)

These are codes (horizontal parity) that are used to detect errors in the transmitted data.

If “**” is entered instead of “Bcc”, however, messages can be transmitted without the Bcc. In this case, the Bcc is included with the response

◇Error code Err (H), (L)

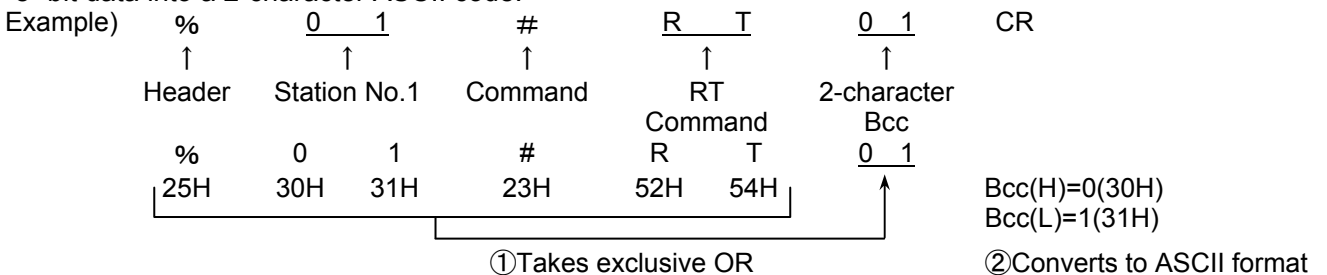
Two-digit hexadecimal 00 to FF (ASCII codes)

These indicate the content if an error occurs.

◆Bcc (Block Check Code)

-The Bcc is a code that carries out an error check using horizontal parity, to improve the reliability of the data being sent.

-The Bcc uses an exclusive OR from the header (%) to the final character of the text, and converts the 8-bit data into a 2-character ASCII code.



1.3.2 Data Register List

Data register	Name	Unit	Kind of data	Range	R/W
DT00002	Over current (OFF threshold)	0.1%	Unsigned 16bit	1 to 1200	R/W
DT00003	Under voltage (OFF threshold)	0.1%	Unsigned 16bit	50 to 1000	R/W
DT00004	Over voltage (OFF threshold)	0.1%	Unsigned 16bit	1000 to 1200	R/W
DT00005	Level output OUT1	—	Unsigned 16bit	0: Pulse OFF, 1:Pulse ON	R/W
DT00006	Level output OUT2	—	Unsigned 16bit	0:Pulse OFF, 1:Pulse ON	R/W
DT00007	Active power alarm (ON threshold) OUT1	0.1kW	Unsigned 32bit	0 to 29999999	R/W
DT00008					
DT00009	Active power alarm target phase OUT1	—	Unsigned 16bit	0:All, 1:Phase1, 2:Phase2, 3:Phase3, 5:total	R/W
DT00010	Active power alarm (ON threshold) OUT2	0.1kW	Unsigned 32bit	0 to 29999999	R/W
DT00011					
DT00012	Active power alarm target phase OUT2	—	Unsigned 16bit	0:All, 1:Phase1, 2:Phase2, 3:Phase3, 5:total	R/W
DT00013	Stand-by alarm (threshold) OUT1	0.1%	Unsigned 16bit	1 to 1000	R/W
DT00014	Stand-by alarm (start time) OUT1	1min	Unsigned 16bit	0 to 9999	R/W
DT00015	Stand-by alarm (phase) OUT1	—	Unsigned 16bit	0:All, 1:Phase1, 2:Phase2, 3:Phase3	R/W
DT00016	Stand-by alarm (threshold) OUT2	0.1%	Unsigned 16bit	1 to 1000	R/W
DT00017	Stand-by alarm (start time) OUT2	1min	Unsigned 16bit	0 to 9999	R/W
DT00018	Stand-by alarm (phase) OUT2	—	Unsigned 16bit	0:All, 1:Phase1, 2:Phase2, 3:Phase3	R/W
DT00019	Preset OUT1	0.001	Unsigned 32bit	0 to 999999	R/W
DT00020					
DT00021					
DT00022					
DT00023	Integral power output target phase OUT1	—	Unsigned 16bit	1:Phase1, 2:Phase2, 3:Phase3, 5:total	R/W
DT00024	Integral power output target phase OUT2	—	Unsigned 16bit	1:Phase1, 2:Phase2, 3:Phase3, 5:total	R/W
DT00025	Time program 1 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00026	Time program 1 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W
DT00027	Time program 2 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00028	Time program 2 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W
DT00029	Time program 3 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00030	Time program 3 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W
DT00031	Time program 4 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00032	Time program 4 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W
DT00033	Time program 5 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00034	Time program 5 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W
DT00035	Time program 6 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00036	Time program 6 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W
DT00037	Time program 7 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00038	Time program 7 (start-time)	—	Unsigned 16bit	Higher Lower h:00H to 23H, m:00H to 59H	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT00039	Time program 8 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00040	Time program 8 (start-time)	—	Unsigned 16bit	Higher h:00H to 23H, m:00H to 59H Lower	R/W
DT00041	Time program 9 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00042	Time program 9 (start-time)	—	Unsigned 16bit	Higher h:00H to 23H, m:00H to 59H Lower	R/W
DT00043	Time program 10 (time-zone)	—	Unsigned 16bit	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
DT00044	Time program 10 (start-time)	—	Unsigned 16bit	Higher h:00H to 23H, m:00H to 59H Lower	R/W
DT00045	Calendar (min. / sec.)	—	Unsigned 16bit	Higher m:00H to 59H, s:00H to 59H Lower	R/W
DT00046	Calendar (day / hour)	—	Unsigned 16bit	Higher d:01H to 31H, h:00H to 23H Lower	R/W
DT00047	Calendar (year / month)	—	Unsigned 16bit	Higher y:00H to 99H, m:01H to 12H Lower	R/W
DT00048	Pulse input IN1	—	Unsigned 16bit	1:30Hz, 10:Clock correction	R/W
DT00049	Pulse input IN2	—	Unsigned 16bit	1:30Hz, 2:2kHz	R/W
DT00050	RS485 Device number	—	Unsigned 16bit	Mewtocol: 1 to 99 Modbus: 1 to 247 DL/T645: 0 to 9999	R/W
DT00051	RS485 Transmission speed	—	Unsigned 16bit	0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 5: 38400	R/W
DT00052	RS485 Transmission format	—	Unsigned 16bit	0: 8bit-o 1: 8bit-n 2: 8bit-E	R/W
DT00053	RS485 Stop bit	—	Unsigned 16bit	1, 2	R/W
DT00054	RS485 Response time	1ms	Unsigned 16bit	1 to 99	R/W
DT00055	Phase/Wire	—	Unsigned 16bit	0: 1P2W 1: 1P3W 2: 3P3W 3: 3P4W	R/W
DT00056	CT type (2 nd)	Rated A (rms)	Unsigned 16bit	1, 5	R/W
DT00057	Primary side current of CT	1A	Unsigned 16bit	1 to 4000	R/W
DT00058	VT ratio	0.01	Unsigned 16bit	100 to 60000	R/W
DT00059	Temperature correction value	0.1°C	Signed 16bit	-100.0 to 100.0	R/W
DT00060	Unit for pulse output OUT1	—	Unsigned 16bit	1:0.0001kWh, 2:0.001kWh, 3:0.01kWh, 4:0.1kWh, 5:1kWh, 6:10kWh, 7:100kWh 100:Stand-by alarm 101:Under voltage alarm 102:Over voltage alarm 103:Power interruption alarm 104:Current alarm 105:Active power alarm 106:Count output 1 107:Count output 2 108:Level output 109:PF alarm 110:current harmonics alarm 111:voltage harmonics alarm 112:current THD alarm 113:voltage THD alarm 114:current unbalancing alarm 115:voltage unbalancing alarm 116:under current alarm 117:reactive power alarm 118:apparent power alarm 119:over frequency alarm 120:under frequency alarm 121:power demand alarm 122:current demand alarm	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT00061	Unit for pulse output OUT2	—	Unsigned 16bit	1:0.0001kWh, 2:0.001kWh, 3:0.01kWh, 4:0.1kWh, 5:1kWh, 6:10kWh, 7:100kWh 100:Stand-by alarm 101:Under voltage alarm 102:Over voltage alarm 103:power interruption alarm 104:Current alarm 105:Active power alarm 106:Count output 1 107:Count output 2 108:Level output 109:PF alarm) 110:current harmonics alarm 111:voltage harmonics alarm 112:current THD alarm 113:voltage THD alarm 114:current unbalancing alarm 115:voltage unbalancing alarm 116:under current alarm 117:reactive power alarm 118:apparent power alarm 119:over frequency alarm 120:under frequency alarm 121:power demand alarm 122:current demand alarm	R/W
DT00062	Power interruption alarm target phase OUT1	—	Unsigned 16bit	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT00063	Power interruption alarm target phase OUT2	—	Unsigned 16bit	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT00064	Over current (ON threshold)	0.1%	Unsigned 16bit	1 to 1200	R/W
DT00065	Update cycle	100ms	Unsigned 16bit	1 to 10	R/W
DT00066	Prescale IN1	0.001	Unsigned 32bit	1 to 100000	R/W
DT00067					
DT00068	Prescale IN2	0.001	Unsigned 32bit	1 to 100000	R/W
DT00069					
DT00070	Auto-off	1min	Unsigned 16bit	0 to 99 (0: always ON)	R/W
DT00071	Current alarm target Phase OUT1	—	Unsigned 16bit	0:All(except phaseN), 1:Phase1, 2:Phase2, 3:Phase3, 4:phaseN	R/W
DT00072	Current alarm target phaseOUT2	—	Unsigned 16bit	0:All(except phaseN), 1:Phase1, 2:Phase2, 3:Phase3, 4:phaseN	R/W
DT00073	Over voltage alarm target phaseOUT1	—	Unsigned 16bit	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT00074	Over voltage alarm target phaseOUT2	—	Unsigned 16bit	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT00075	Under voltage alarm target phaseOUT1	—	Unsigned 16bit	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT00076	Under voltage alarm target phase OUT2	—	Unsigned 16bit	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT00077	Integral direction OUT1	—	Unsigned 16bit	0:export 1:import	R/W
DT00078	Integral direction OUT2	—	Unsigned 16bit	0:export 1:import	R/W
DT00079	Clock correction	—	Unsigned 16bit	hh:0 to 23 min,:0 to 59	R/W
DT00080	Over voltage (ON threshold)	0.1%	Unsigned 16bit	1000 to 1200	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT00081	Under voltage (ON threshold)	0.1%	Unsigned 16bit	50 to 1000	R/W
DT00082	Blinking during alarm output	—	Unsigned 16bit	0: no blinking, 1:blinking	R/W
DT00083	Conversion rate(-P) T1	0.01	Unsigned 16bit	0 to 9999	R/W
DT00084	Conversion rate(-P) T2	0.01	Unsigned 16bit	0 to 9999	R/W
DT00085	Conversion rate(-P) T3	0.01	Unsigned 16bit	0 to 9999	R/W
DT00086	Conversion rate(-P) T4	0.01	Unsigned 16bit	0 to 9999	R/W
DT00087	Conversion rate (-P)	0.01	Unsigned 16bit	0 to 9999	R/W
DT00088	Rated voltage	1V	Unsigned 16bit	100 to 500	R/W
DT00089	Conversion rate(P) T1	0.01	Unsigned 16bit	0 to 9999	R/W
DT00090	Conversion rate(P) T2	0.01	Unsigned 16bit	0 to 9999	R/W
DT00091	Conversion rate(P) T3	0.01	Unsigned 16bit	0 to 9999	R/W
DT00092	Conversion rate(P) T4	0.01	Unsigned 16bit	0 to 9999	R/W
DT00093	Conversion rate (P)	0.01	Unsigned 16bit	0 to 9999	R/W
DT00094	Password	—	Unsigned 16bit	0 to 9999	R/W
DT00095	Auto display start	1min	Unsigned 16bit	0 to 99 (0: fix display item)	R/W
DT00096	Display cycle	1sec	Unsigned 16bit	1 to 99	R/W
DT00097	Luminance	—	Unsigned 16bit	1 to 5 (dark to light)	R/W
DT00098	Protocol	—	Unsigned 16bit	0: MEWTOCOL 1: MODBUS 2: DL/T645	R/W
DT30000	Active power alarm (OFF threshold) OUT1	0.1kW	Unsigned 32bit	0 to 29999999	R/W
DT30001					
DT30002	Active power alarm (OFF threshold) OUT2	0.1kW	Unsigned 32bit	0 to 29999999	R/W
DT30003					
DT30004	PF alarm (ON threshold)OUT1	0.001	Unsigned 16bit	0 to 1000	R/W
DT30005	PF alarm (OFF threshold)OUT1	0.001	Unsigned 16bit	0 to 1000	R/W
DT30006	PF alarm(phase) OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30007	PF alarm (ON threshold)OUT2	0.001	Unsigned 16bit	0 to 1000	R/W
DT30008	PF alarm (OFF threshold)OUT2	0.001	Unsigned 16bit	0 to 1000	R/W
DT30009	PF alarm(phase) OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30010	Current harmonics alarm(ON threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30011	Current harmonics alarm(OFF threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30012	Current harmonics alarm(phase) OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30013	Current harmonics alarm(ON threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30014	Current harmonics alarm(OFF threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30015	Current harmonics alarm(phase) OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30016	Voltage harmonics alarm(ON threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30017	Voltage harmonics alarm(OFF threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30018	Voltage harmonics alarm(phase) OUT1	—	Unsigned 16bit	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT30019	Voltage harmonics alarm(ON threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT30020	Voltage harmonics alarm(OFF threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30021	Voltage harmonics alarm(phase) OUT2	—	Unsigned 16bit	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT30022	Current THD alarm (ON threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30023	Current THD alarm (OFF threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30024	Current THD alarm (phase) OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30025	Current THD alarm (ON threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30026	Current THD alarm (OFF threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30027	Current THD alarm (phase) OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30028	Voltage THD alarm (ON threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30029	Voltage THD alarm (OFF threshold) OUT1	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30030	Voltage THD alarm (phase) OUT1	—	Unsigned 16bit	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT30031	Voltage THD alarm (ON threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30032	Voltage THD alarm (OFF threshold) OUT2	0.01%	Unsigned 16bit	0 to 40000	R/W
DT30033	Voltage THD alarm (phase) OUT2	—	Unsigned 16bit	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
DT30034	Current unbalancing alarm(ON threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30035	Current unbalancing alarm(OFF threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30036	Current unbalancing alarm(ON threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30037	Current unbalancing alarm(OFF threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30038	Current unbalancing alarm(ON threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30039	Current unbalancing alarm(OFF threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30040	Current unbalancing alarm(ON threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30041	Current unbalancing alarm(OFF threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30042	Voltage unbalancing alarm(ON threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30043	Voltage unbalancing alarm(OFF threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30044	Voltage unbalancing alarm(ON threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30045	Voltage unbalancing alarm(OFF threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30046	Voltage unbalancing alarm(ON threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30047	Voltage unbalancing alarm(OFF threshold) OUT1	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30048	Voltage unbalancing alarm(ON threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30049	Voltage unbalancing alarm(OFF threshold) OUT2	0.01%	Unsigned 32bit	0 to 99999	R/W
DT30050	Under current alarm (phase) OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30051	Under current alarm (phase) OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT30052	Over frequency alarm (ON threshold) OUT1	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30053	Over frequency alarm (OFF threshold) OUT1	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30054	Over frequency alarm (phase)OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30055	Over frequency alarm (ON threshold) OUT2	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30056	Over frequency alarm (OFF threshold) OUT2	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30057	Over frequency alarm (phase)OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30058	Under frequency alarm (ON threshold) OUT1	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30059	Under frequency alarm (OFF threshold) OUT1	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30060	Under frequency alarm (phase)OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30061	Under frequency alarm (ON threshold) OUT2	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30062	Under frequency alarm (OFF threshold) OUT2	0.01Hz	Unsigned 16bit	0 to 10000	R/W
DT30063	Under frequency alarm (phase)OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30064	Reactive power alarm (ON threshold) OUT1	0.1kvar	Unsigned 32bit	0 to 29999999	R/W
DT30065					
DT30066	Reactive power alarm (OFF threshold) OUT1	0.1kvar	Unsigned 32bit	0 to 29999999	R/W
DT30067					
DT30068	Reactive power alarm (phase)OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3,5:total	R/W
DT30069	Reactive power alarm (ON threshold) OUT2	0.1kvar	Unsigned 32bit	0 to 29999999	R/W
DT30070					
DT30071	Reactive power alarm (OFF threshold) OUT2	0.1kvar	Unsigned 32bit	0 to 29999999	R/W
DT30072					
DT30073	Reactive power alarm (phase)OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3,5:total	R/W
DT30074	Apparent power alarm (ON threshold) OUT1	0.1kVA	Unsigned 32bit	0 to 29999999	R/W
DT30075					
DT30076	Apparent power alarm (OFF threshold) OUT1	0.1kVA	Unsigned 32bit	0 to 29999999	R/W
DT30077					
DT30078	Apparent power alarm (phase)OUT1	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3,5:total	R/W
DT30079	Apparent power alarm (ON threshold) OUT2	0.1kVA	Unsigned 32bit	0 to 29999999	R/W
DT30080					
DT30081	Apparent power alarm (OFF threshold) OUT2	0.1kVA	Unsigned 32bit	0 to 29999999	R/W
DT30082					
DT30083	Apparent power alarm (phase)OUT2	—	Unsigned 16bit	0:All,1:Phase1, 2:Phase2, 3:Phase3,5:total	R/W
DT30084	Power demand alarm (power type) OUT1	—	Unsigned 16bit	0: active power, 1: reactive power, 2: apparent power, 3: active power(export), 4: reactive power(export)	R/W
DT30085	Power demand alarm (ON threshold) OUT1	0.001 kW /kvar/kVA	Unsigned 32bit	0 to 99999999	R/W
DT30086					
DT30087	Power demand alarm (OFF threshold) OUT1	0.001 kW /kvar/kVA	Unsigned 32bit	0 to 99999999	R/W
DT30088					
DT30089	Power demand alarm (target) OUT1	0.001 kW /kvar/kVA	Unsigned 32bit	0 to 99999999	R/W
DT30090					
DT30091	Power demand alarm (hysteresis) OUT1	1%	Unsigned 16bit	0 to 100%	R/W
DT30092	Power demand alarm start-time OUT1	1min,	Unsigned 16bit	1 to 30	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT30093	Power demand alarm (power type) OUT2	—	Unsigned 16bit	0: active power, 1: reactive power, 2: apparent power, 3: active power(export), 4: reactive power(export)	R/W
DT30094	Power demand alarm (ON threshold) OUT2	0.001 kW /kvar/kVA	Unsigned 32bit	0 to 99999999	R/W
DT30095					
DT30096	Power demand alarm (OFF threshold) OUT2	0.001 kW /kvar/kVA	Unsigned 32bit	0 to 99999999	R/W
DT30097					
DT30098	Power demand alarm (target) OUT2	0.001 kW /kvar/kVA	Unsigned 32bit	0 to 99999999	R/W
DT30099					
DT30100	Power demand alarm (hysteresis) OUT2	1%	Unsigned 16bit	0 to 100%	R/W
DT30101	Power demand alarm start-time OUT2	1min,	Unsigned 16bit	1 to 30	R/W
DT30102	Current demand alarm (ON threshold) OUT1	0.1%	Unsigned 16bit	0 to 1200	R/W
DT30103	Current demand alarm (OFF threshold)OUT1	0.1%	Unsigned 16bit	0 to 1200	R/W
DT30104	Current demand alarm (phase)OUT1	—	Unsigned 16bit	0:All, 1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30105	Current demand alarm (ON threshold) OUT2	0.1%	Unsigned 16bit	0 to 1200	R/W
DT30106	Current demand alarm (OFF threshold)OUT2	0.1%	Unsigned 16bit	0 to 1200	R/W
DT30107	Current demand alarm (phase)OUT2	—	Unsigned 16bit	0:All, 1:Phase1, 2:Phase2, 3:Phase3	R/W
DT30108	Power demand type	—	Unsigned 16bit	0:peak demand, 1:sliding block, 2:fixed block, 3:30-min demand	R/W
DT30109	Power demand interval1	1min,	Unsigned 16bit	1 to 60	R/W
DT30110	Power demand interval2	1min,	Unsigned 16bit	1 to 60	R/W
DT30111	Current demand interval	1min,	Unsigned 16bit	1 to 60	R/W
DT30112	30-min demand calculation method	—	Unsigned 16bit	0:addition, 1:average	R/W
DT30113	Power input type	—	Unsigned 16bit	0:CT input 1:pulse input	R/W
DT30114	Pulse type	—	Unsigned 16bit	0:kWh, 1:Pulse	R/W
DT30115	Pulse rate (electric power conversion)	0.001kWh	Unsigned 32bit	1 to 100000	R/W
DT30116					
DT30117	Pulse constant value	pulse/kWh	Unsigned 16bit	0:50000, 1:2000	R/W
DT30118	Under current (ON threshold)	0.1%	Unsigned 16bit	0 to 1000	R/W
DT30119	Under current (OFF threshold)	0.1%	Unsigned 16bit	0 to 1000	R/W

Data register	Name	Unit	Kind of data	Range	R/W
DT00100	Integral active power (1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00101					
DT00102	Integral active power (2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00103					
DT00104	Integral active power (3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00105					
DT00106	Total integral active power	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00107					
DT00108	Integral reactive power (1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00109					
DT00110	Integral reactive power (2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00111					
DT00112	Integral reactive power (3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00113					
DT00114	Total integral reactive power	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00115					
DT00116	Integral apparent power (1)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00117					
DT00118	Integral apparent power (2)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00119					
DT00120	Integral apparent power (3)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00121					
DT00122	Total integral apparent power	0.01kVAh	Unsigned 32bit	0 to 2999999997	R
DT00123					
DT00124	Integral export active power (1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00125					
DT00126	Integral export active power (2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00127					
DT00128	Integral export active power (3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00129					
DT00130	Total integral export active power	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00131					
DT00132	Integral export reactive power (1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00133					
DT00134	Integral export reactive power (2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00135					
DT00136	Integral export reactive power (3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00137					
DT00138	Total integral export reactive power	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00139					
DT00140	Instantaneous active power (1)	0.01kW	Signed 32bit	-99999999 to 99999999	R
DT00141					
DT00142	Instantaneous active power (2)	0.01kW	Signed 32bit	-99999999 to 99999999	R
DT00143					
DT00144	Instantaneous active power (3)	0.01kW	Signed 32bit	-99999999 to 99999999	R
DT00145					
DT00146	Total instantaneous active power	0.01kW	Signed 32bit	-299999997 to 299999997	R
DT00147					
DT00148	Instantaneous reactive power (1)	0.01kvar	Signed 32bit	-99999999 to 99999999	R
DT00149					
DT00150	Instantaneous reactive power (2)	0.01kvar	Signed 32bit	-99999999 to 99999999	R
DT00151					
DT00152	Instantaneous reactive power (3)	0.01kvar	Signed 32bit	-99999999 to 99999999	R
DT00153					
DT00154	Total instantaneous reactive power	0.01kvar	Signed 32bit	-299999997 to 299999997	R
DT00155					
DT00156	Instantaneous apparent power (1)	0.01kVA	Unsigned 32bit	0 to 99999999	R
DT00157					
DT00158	Instantaneous apparent power (2)	0.01kVA	Unsigned 32bit	0 to 99999999	R
DT00159					
DT00160	Instantaneous apparent power (3)	0.01kVA	Unsigned 32bit	0 to 99999999	R
DT00161					
DT00162	Total instantaneous apparent power	0.01kVA	Unsigned 32bit	0 to 299999997	R
DT00163					

Data register	Name	Unit	Kind of data	Range	R/W
DT00164	Voltage 1	0.1V	Unsigned 32bit	0 to 999999999	R
DT00165					
DT00166	Voltage 2	0.1V	Unsigned 32bit	0 to 999999999	R
DT00167					
DT00168	Voltage 3	0.1V	Unsigned 32bit	0 to 999999999	R
DT00169					
DT00170	Voltage average	0.1V	Unsigned 32bit	0 to 999999999	R
DT00171					
DT00172	Line voltage 1-2	0.1V	Unsigned 32bit	0 to 999999999	R
DT00173					
DT00174	Line voltage 2-3	0.1V	Unsigned 32bit	0 to 999999999	R
DT00175					
DT00176	Line voltage 3-1	0.1V	Unsigned 32bit	0 to 999999999	R
DT00177					
DT00178	Line voltage average	0.1V	Unsigned 32bit	0 to 999999999	R
DT00179					
DT00180	Current (1)	0.01A	Unsigned 32bit	0 to 999999999	R
DT00181					
DT00182	Current (2)	0.01A	Unsigned 32bit	0 to 999999999	R
DT00183					
DT00184	Current (3)	0.01A	Unsigned 32bit	0 to 999999999	R
DT00185					
DT00186	Current phase N	0.01A	Unsigned 32bit	0 to 999999999	R
DT00187					
DT00188	Current average	0.01A	Unsigned 32bit	0 to 999999999	R
DT00189					
DT00190	Frequency (1)	0.1Hz	Unsigned 16bit	0 to 999	R
DT00191	Frequency (2)	0.1Hz	Unsigned 16bit	0 to 999	R
DT00192	Frequency (3)	0.1Hz	Unsigned 16bit	0 to 999	R
DT00193	Frequency average	0.1Hz	Unsigned 16bit	0 to 999	R
DT00194	PF (1)	0.001	Signed 16bit	-1000 to 1000	R
DT00195	PF (2)	0.001	Signed 16bit	-1000 to 1000	R
DT00196	PF (3)	0.001	Signed 16bit	-1000 to 1000	R
DT00197	PF average	0.001	Signed 16bit	-1000 to 1000	R
DT00198	Integral active power (1)	0.001 kWh	Unsigned 32bit	0 to 999999999	R/W
DT00199					
DT00200	Integral active power (2)	0.001 kWh	Unsigned 32bit	0 to 999999999	R/W
DT00201					
DT00202	Integral active power (3)	0.001 kWh	Unsigned 32bit	0 to 999999999	R/W
DT00203					
DT00204	Total integral active power	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT00205					
DT00206	Integral reactive power (1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00207					
DT00208	Integral reactive power (2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00209					
DT00210	Integral reactive power (3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00211					
DT00212	Total integral reactive power	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT00213					
DT00214	Integral apparent power (1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00215					
DT00216	Integral apparent power (2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00217					
DT00218	Integral apparent power (3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00219					
DT00220	Total integral apparent power	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT00221					
DT00222	Integral export active power (1)	0.001 kWh	Unsigned 32bit	0 to 999999999	R/W
DT00223					
DT00224	Integral export active power (2)	0.001 kWh	Unsigned 32bit	0 to 999999999	R/W
DT00225					
DT00226	Integral export active power (3)	0.001 kWh	Unsigned 32bit	0 to 999999999	R/W
DT00227					

Data register	Name	Unit	Kind of data	Range	R/W
DT00228	Total integral export active power	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT00229					
DT00230	Integral export reactive power (1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00231					
DT00232	Integral export reactive power (2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00233					
DT00234	Integral export reactive power (3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00235					
DT00236	Total integral export reactive power	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT00237					
DT00238	Instantaneous active power (1)	0.001 kW	Signed 32bit	-999999999 to 999999999	R
DT00239					
DT00240	Instantaneous active power (2)	0.001 kW	Signed 32bit	-999999999 to 999999999	R
DT00241					
DT00242	Instantaneous active power (3)	0.001 kW	Signed 32bit	-999999999 to 999999999	R
DT00243					
DT00244	Total instantaneous active power	0.001 kW	Signed 32bit	-299999997 to 299999997	R
DT00245					
DT00246	Instantaneous reactive power (1)	0.001 kvar	Signed 32bit	-999999999 to 999999999	R
DT00247					
DT00248	Instantaneous reactive power (2)	0.001 kvar	Signed 32bit	-999999999 to 999999999	R
DT00249					
DT00250	Instantaneous reactive power (3)	0.001 kvar	Signed 32bit	-999999999 to 999999999	R
DT00251					
DT00252	Total instantaneous reactive power	0.001 Kvar	Signed 32bit	-299999997 to 299999997	R
DT00253					
DT00254	Instantaneous apparent power (1)	0.001 kVA	Unsigned 32bit	0 to 999999999	R
DT00255					
DT00256	Instantaneous apparent power (2)	0.001 kVA	Unsigned 32bit	0 to 999999999	R
DT00257					
DT00258	Instantaneous apparent power (3)	0.001 kVA	Unsigned 32bit	0 to 999999999	R
DT00259					
DT00260	Total instantaneous apparent power	0.001 kVA	Unsigned 32bit	0 to 299999997	R
DT00261					
DT00262	Voltage 1	0.01V	Unsigned 32bit	0 to 999999999	R
DT00263					
DT00264	Voltage 2	0.01V	Unsigned 32bit	0 to 999999999	R
DT00265					
DT00266	Voltage 3	0.01V	Unsigned 32bit	0 to 999999999	R
DT00267					
DT00268	Voltage average	0.01V	Unsigned 32bit	0 to 999999999	R
DT00269					
DT00270	Line voltage 1-2	0.01V	Unsigned 32bit	0 to 999999999	R
DT00271					
DT00272	Line voltage 2-3	0.01V	Unsigned 32bit	0 to 999999999	R
DT00273					
DT00274	Line voltage 3-1	0.01V	Unsigned 32bit	0 to 999999999	R
DT00275					
DT00276	Line voltage average	0.01V	Unsigned 32bit	0 to 999999999	R
DT00277					
DT00278	Current (1)	0.001A	Unsigned 32bit	0 to 999999999	R
DT00279					
DT00280	Current (2)	0.001A	Unsigned 32bit	0 to 999999999	R
DT00281					
DT00282	Current (3)	0.001A	Unsigned 32bit	0 to 999999999	R
DT00283					
DT00284	Current phase N	0.001A	Unsigned 32bit	0 to 999999999	R
DT00285					
DT00286	Current average	0.001A	Unsigned 32bit	0 to 999999999	R
DT00287					
DT00288	Frequency (1)	0.01Hz	Unsigned 16bit	0 to 9999	R
DT00289	Frequency (2)	0.01Hz	Unsigned 16bit	0 to 9999	R
DT00290	Frequency (3)	0.01Hz	Unsigned 16bit	0 to 9999	R
DT00291	Frequency average	0.01Hz	Unsigned 16bit	0 to 9999	R

Data register	Name	Unit	Kind of data	Range	R/W
DT00292	Pulse input value IN1	—	Unsigned 32bit	0 to 999999	R/W
DT00293					
DT00294	Pulse input value IN2	—	Unsigned 32bit	0 to 999999	R/W
DT00295					
DT00296	Pulse input IN1status	—	Unsigned 16bit	0:OFF, 1:ON	R
DT00297	Pulse input IN2status	—	Unsigned 16bit	0:OFF, 1:ON	R
DT00298	Pulse output OUT1status	—	Unsigned 16bit	0:OFF, 1:ON	R
DT00299	Pulse output OUT2status	—	Unsigned 16bit	0:OFF, 1:ON	R
DT00300	Integral active power (pulse conversion value)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT00301					
DT00302	Estimated demand	0.001kW	Unsigned 32bit	0 to 999999999	R
DT00303					
DT00304	Demand remaining time	1min,	Unsigned 16bit	0 to 30	R
DT00305	Present demand (active power)	0.001kW	Unsigned 32bit	0 to 999999999	R
DT00306					
DT00307	Present demand (reactive power)	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT00308					
DT00309	Present demand (apparent power)	0.001kVA	Unsigned 32bit	0 to 999999999	R
DT00310					
DT00311	Present demand (active power (export))	0.001kW	Unsigned 32bit	0 to 999999999	R
DT00312					
DT00313	Present demand (reactive power(export))	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT00314					
DT00315	Present demand (current①)	0.001A	Unsigned 32bit	0 to 999999999	R
DT00316					
DT00317	Present demand (current②)	0.001A	Unsigned 32bit	0 to 999999999	R
DT00318					
DT00319	Present demand (current③)	0.001A	Unsigned 32bit	0 to 999999999	R
DT00320					
DT00324	PF status	-	Unsigned 16bit	0: even 1: Lag 2: Lead	R
DT00418	Temperature	0.1°C	Signed 16bit	-1000 to 1000	R
DT00500	Integral active power①(T1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00501					
DT00502	Integral active power②(T1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00503					
DT00504	Integral active power③(T1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00505					
DT00506	Total integral active power(T1)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00507					
DT00508	Integral active power①(T2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00509					
DT00510	Integral active power②(T2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00511					
DT00512	Integral active power③(T2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00513					
DT00514	Total integral active power(T2)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00515					
DT00516	Integral active power①(T3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00517					
DT00518	Integral active power②(T3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00519					
DT00520	Integral active power③(T3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00521					
DT00522	Totalintegral active power(T3)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00523					
DT00524	Integral active power①(T4)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00525					
DT00526	Integral active power②(T4)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00527					
DT00528	Integral active power③(T4)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00529					
DT00530	Total integral active power(T4)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00531					

Data register	Name	Unit	Kind of data	Range	R/W
DT00532	Integral reactive power①(T1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00533					
DT00534	Integral reactive power②(T1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00535					
DT00536	Integral reactive power③(T1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00537					
DT00538	Totalintegral reactive power(T1)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00539					
DT00540	Integral reactive power①(T2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00541					
DT00542	Integral reactive power②(T2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00543					
DT00544	Integral reactive power③(T2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00545					
DT00546	Totalintegral reactive power(T2)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00547					
DT00548	Integral reactive power①(T3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00549					
DT00550	Integral reactive power②(T3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00551					
DT00552	Integral reactive power③(T3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00553					
DT00554	Totalintegral reactive power(T3)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00555					
DT00556	Integral reactive power①(T4)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00557					
DT00558	Integral reactive power②(T4)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00559					
DT00560	Integral reactive power③(T4)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00561					
DT00562	Totalintegral reactive power(T4)	0.01kVAh	Unsigned 32bit	0 to 2999999997	R
DT00563					
DT00564	Integral apparent power①(T1)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00565					
DT00566	Integral apparent power②(T1)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00567					
DT00568	Integral apparent power③(T1)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00569					
DT00570	Totalintegral apparent power(T1)	0.01kVAh	Unsigned 32bit	0 to 2999999997	R
DT00571					
DT00572	Integral apparent power①(T2)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00573					
DT00574	Integral apparent power②(T2)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00575					
DT00576	Integral apparent power③(T2)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00577					
DT00578	Totalintegral apparent power (T2)	0.01kVAh	Unsigned 32bit	0 to 2999999997	R
DT00579					
DT00580	Integral apparent power①(T3)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00581					
DT00582	Integral apparent power②(T3)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00583					
DT00584	Integral apparent power③(T3)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00585					
DT00586	Totalintegral apparent power(T3)	0.01kVAh	Unsigned 32bit	0 to 2999999997	R
DT00587					
DT00588	Integral apparent power①(T4)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00589					
DT00590	Integral apparent power②(T4)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00591					

Data register	Name	Unit	Kind of data	Range	R/W
DT00592	Integral apparent power③(T4)	0.01kVAh	Unsigned 32bit	0 to 999999999	R/W
DT00593					
DT00594	Total integral apparent power(T4)	0.01kVAh	Unsigned 32bit	0 to 2999999997	R
DT00596	Integral active power (export) ①(T1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00597					
DT00598	Integral active power (export) ②(T1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00599					
DT00600	Integral active power (export) ③(T1)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00601					
DT00602	Total Integral active power (export) (T1)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00603					
DT00604	Integral active power (export) ①(T2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00605					
DT00606	Integral active power (export) ②(T2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00607					
DT00608	Integral active power (export) ③(T2)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00609					
DT00610	Total Integral active power (export) (T2)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00611					
DT00612	Integral active power (export) ①(T3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00613					
DT00614	Integral active power (export) ②(T3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00615					
DT00616	Integral active power (export) ③(T3)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00617					
DT00618	Total integral active power (export) (T3)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00619					
DT00620	Integral active power (export) ①(T4)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00621					
DT00622	Integral active power (export) ②(T4)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00623					
DT00624	Integral active power (export) ③(T4)	0.01kWh	Unsigned 32bit	0 to 999999999	R/W
DT00625					
DT00626	total Integral active power (export) (T4)	0.01kWh	Unsigned 32bit	0 to 2999999997	R
DT00627					
DT00628	Integral reactive power (export) ①(T1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00629					
DT00630	Integral reactive power (export) ②(T1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00631					
DT00632	Integral reactive power (export) ③(T1)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00633					
DT00634	Total integral reactive power (export) (T1)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00635					
DT00636	Integral reactive power (export) ①(T2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00637					
DT00638	Integral reactive power (export) ②(T2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00639					
DT00640	Integral reactive power (export) ③(T2)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00641					
DT00642	Total integral reactive power (export) (T2)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00643					
DT00644	Integral reactive power (export) ①(T3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00645					
DT00646	Integral reactive power (export) ②(T3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00647					
DT00648	Integral reactive power (export) ③(T3)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00649					
DT00650	Total integral reactive power (export) (T3)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00651					

Data register	Name	Unit	Kind of data	Range	R/W
DT00652	Integral reactive power (export) ①(T4)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00653					
DT00654	Integral reactive power (export) ②(T4)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00655					
DT00656	Integral reactive power (export) ③(T4)	0.01kvarh	Unsigned 32bit	0 to 999999999	R/W
DT00657					
DT00658	TotalIntegral reactive power (export) (T4)	0.01kvarh	Unsigned 32bit	0 to 2999999997	R
DT00659					
DT00660	Voltage unbalancing	0.001%	Unsigned 32bit	0 to 999999	R
DT00661					
DT00662	Current unbalancing	0.001%	Unsigned 32bit	0 to 999999	R
DT00663					
DT00664	Phase voltage THD①	0.001%	Signed 32bit	-400000 to 400000	R
DT00665					
DT00666	Phase voltage THD②	0.001%	Signed 32bit	-400000 to 400000	R
DT00667					
DT00668	Phase voltage THD③	0.001%	Signed 32bit	-400000 to 400000	R
DT00669					
DT00670	Phase voltage THD average	0.001%	Signed 32bit	-400000 to 400000	R
DT00671					
DT00672	Line voltage THD 1-2	0.001%	Signed 32bit	-400000 to 400000	R
DT00673					
DT00674	Line voltage THD 2-3	0.001%	Signed 32bit	-400000 to 400000	R
DT00675					
DT00676	Line voltage THD 3-1	0.001%	Signed 32bit	-400000 to 400000	R
DT00677					
DT00678	Line voltage THD average	0.001%	Signed 32bit	-400000 to 400000	R
DT00679					
DT00680	Current THD①	0.001%	Signed 32bit	-400000 to 400000	R
DT00681					
DT00682	Current THD②	0.001%	Signed 32bit	-400000 to 400000	R
DT00683					
DT00684	Current THD③	0.001%	Signed 32bit	-400000 to 400000	R
DT00685					
DT00686	Current THD average	0.001%	Signed 32bit	-400000 to 400000	R
DT00687					
DT00688 + 8*(n-2)	Phase voltage n-order harmonics①	0.001%	Signed 32bit	-400000 to 400000	R
DT00688 + 8*(n-2) + 1					
DT00688 + 8*(n-2) + 2	Phase voltage n-order harmonics②	0.001%	Signed 32bit	-400000 to 400000	R
DT00688 + 8*(n-2) + 3					
DT00688 + 8*(n-2) + 4	Phase voltage n-order harmonics③	0.001%	Signed 32bit	-400000 to 400000	R
DT00688 + 8*(n-2) + 5					
DT00688 + 8*(n-2) + 6	Phase voltage n-order harmonics average	0.001%	Signed 32bit	-400000 to 400000	R
DT00688 + 8*(n-2) + 7					
DT00936 + 8*(n-2)	Line voltage n-order harmonics1-2	0.001%	Signed 32bit	-400000 to 400000	R
DT00936 + 8*(n-2) + 1					
DT00936 + 8*(n-2) + 2	Line voltage n-order harmonics 2-3	0.001%	Signed 32bit	-400000 to 400000	R
DT00936 + 8*(n-2) + 3					

* 'Range' is not the measurement range, it shows the data range.

* n shows 2 to 31.

Data register	Name	Unit	Kind of data	Range	R/W
DT00936 + 8*(n-2) + 4	Line voltage n-order harmonics 3-1	0.001%	Signed 32bit	-400000 to 400000	R
DT00936 + 8*(n-2) + 5					
DT00936 + 8*(n-2) + 6	Line voltage n-order harmonics average	0.001%	Signed 32bit	-400000 to 400000	R
DT00936 + 8*(n-2) + 7					
DT(001184 + 8*(n-2))	Current n-order harmonics ①	0.001%	Signed 32bit	-400000 to 400000	R
DT001184 + 8*(n-2) + 1					
DT001184 + 8*(n-2) + 2	Current n-order harmonics ②	0.001%	Signed 32bit	-400000 to 400000	R
DT001184 + 8*(n-2) + 3					
DT001184 + 8*(n-2) + 4	Current n-order harmonics ③	0.001%	Signed 32bit	-400000 to 400000	R
DT001184 + 8*(n-2) + 5					
DT001184 + 8*(n-2) + 6	Current n-order harmonics average	0.001%	Signed 32bit	-400000 to 400000	R
DT001184 + 8*(n-2) + 7					
DT01424	Integral active power①(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01425					
DT01426	Integral active power②(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01427					
DT01428	Integral active power③(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01429					
DT01430	Total integral active power(T1)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01431					
DT01432	Integral active power①(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01433					
DT01434	Integral active power②(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01435					
DT01436	Integral active power③(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01437					
DT01438	Total integral active power(T2)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01439					
DT01440	Integral active power①(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01441					
DT01442	Integral active power②(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01443					
DT01444	Integral active power③(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01445					
DT01446	Total integral active power(T3)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01447					
DT01448	Integral active power①(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01449					
DT01450	Integral active power②(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01451					
DT01452	Integral active power③(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01453					
DT01454	Total integral active power(T4)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01455					
DT01456	Integral reactive power①(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01457					
DT01458	Integral reactive power②(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01459					

* n shows 2 to 31.

Data register	Name	Unit	Kind of data	Range	R/W
DT01460	Integral reactive power③(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01461					
DT01462	Totalintegral reactive power(T1)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01463					
DT01464	Integral reactive power①(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01465					
DT01466	Integral reactive power②(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01467					
DT01468	Integral reactive power③(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01469					
DT01470	Totalintegral reactive power(T2)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01471					
DT01472	Integral reactive power①(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01473					
DT01474	Integral reactive power②(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01475					
DT01476	Integral reactive power③(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01477					
DT01478	Totalintegral reactive power(T3)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01479					
DT01480	Integral reactive power①(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01481					
DT01482	Integral reactive power②(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01483					
DT01484	Integral reactive power③(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01485					
DT01486	Totalintegral reactive power(T4)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01487					
DT01488	Integral apparent power①(T1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01489					
DT01490	Integral apparent power②(T1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01491					
DT01492	Integral apparent power③(T1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01493					
DT01494	Totalintegral apparent power(T1)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT01495					
DT01496	Integral apparent power①(T2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01497					
DT01498	Integral apparent power②(T2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01499					
DT01500	Integral apparent power③(T2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01501					
DT01502	Total integral apparent power(T2)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT01503					
DT01504	Integral apparent power①(T3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01505					
DT01506	Integral apparent power②(T3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01507					
DT01508	Integral apparent power③(T3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01509					
DT01510	Totalintegral apparent power(T3)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT01511					
DT01512	Integral apparent power①(T4)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01513					
DT01514	Integral apparent power②(T4)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01515					
DT01516	Integral apparent power③(T4)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R/W
DT01517					

Data register	Name	Unit	Kind of data	Range	R/W
DT01518	Total integral apparent power(T4)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT01519					
DT01520	Integral active power (export) ①(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01521					
DT01522	Integral active power (export) ②(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01523					
DT01524	Integral active power (export) ③(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01525					
DT01526	Total integral active power (export) (T1)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01527					
DT01528	Integral active power (export) ①(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01529					
DT01530	Integral active power (export) ②(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01531					
DT01532	Integral active power (export) ③(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01533					
DT01534	Total integral active power (export) (T2)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01535					
DT01536	Integral active power (export) ①(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01537					
DT01538	Integral active power (export) ②(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01539					
DT01540	Integral active power (export) ③(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01541					
DT01542	Total integral active power (export) (T3)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01543					
DT01544	Integral active power (export) ①(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01545					
DT01546	Integral active power (export) ②(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01547					
DT01548	Integral active power (export) ③(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R/W
DT01549					
DT01550	Total integral active power (export) (T4)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT01551					
DT01552	Integral reactive power (export) ①(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01553					
DT01554	Integral reactive power (export) ②(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01555					
DT01556	Integral reactive power (export) ③(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01557					
DT01558	Total integral reactive power (export) (T1)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01559					
DT01560	Integral reactive power (export) ①(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01561					
DT01562	Integral reactive power (export) ②(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01563					
DT01564	Integral reactive power (export) ③(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01565					
DT01566	Total integral reactive power (export) (T2)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01567					
DT01568	Integral reactive power (export) ①(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01569					
DT01570	Integral reactive power (export) ②(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01571					
DT01572	Integral reactive power (export) ③(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01573					
DT01574	Total integral reactive power (export) (T3)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01575					

Data register	Name	Unit	Kind of data	Range	R/W
DT01576	Integral reactive power (export) ①(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01577					
DT01578	Integral reactive power (export) ②(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01579					
DT01580	Integral reactive power (export) ③(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R/W
DT01581					
DT01582	Total Integral reactive power (export) (T4)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT01583					
DT05008	Export power conversion value ①(T1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05009					
DT05010	Export power conversion value ②(T1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05011					
DT05012	Export power conversion value ③(T1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05013					
DT05014	Total Export power conversion value (T1)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05015					
DT05016	Export power conversion value ①(T2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05017					
DT05018	Export power conversion value ②(T2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05019					
DT05020	Export power conversion value ③(T2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05021					
DT05022	Total export power conversion value (T2)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05023					
DT05024	Export power conversion value ①(T3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05025					
DT05026	Export power conversion value ②(T3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05027					
DT05028	Export power conversion value ③(T3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05029					
DT05030	TotalExport power conversion value (T3)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05031					
DT05032	Export power conversion value ①(T4)	0.01	Unsigned 32bit	0 to 999999999	R
DT05033					
DT05034	Export power conversion value ②(T4)	0.01	Unsigned 32bit	0 to 999999999	R
DT05035					
DT05036	Export power conversion value ③(T4)	0.01	Unsigned 32bit	0 to 999999999	R
DT05037					
DT05038	TotalExport power conversion value (T4)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05039					
DT05040	Export power conversion value (1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05041					
DT05042	Export power conversion value (2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05043					
DT05044	Export power conversion value (3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05045					
DT05046	Total export power conversion value	0.01	Unsigned 32bit	0 to 2999999997	R
DT05047					
DT05058	Import power conversion value ①(T1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05059					
DT05060	Import power conversion value ②(T1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05061					
DT05062	Import power conversion value ③(T1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05063					
DT05064	TotalImport power conversion value (T1)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05065					

Data register	Name	Unit	Kind of data	Range	R/W
DT05066	Import power conversion value ①(T2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05067					
DT05068	Import power conversion value ②(T2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05069					
DT05070	Import power conversion value ③(T2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05071					
DT05072	TotalImport power conversion value (T2)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05073					
DT05074	Import power conversion value ①(T3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05075					
DT05076	Import power conversion value ②(T3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05077					
DT05078	Import power conversion value ③(T3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05079					
DT05080	TotalImport power conversion value (T3)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05081					
DT05082	Import power conversion value ①(T4)	0.01	Unsigned 32bit	0 to 999999999	R
DT05083					
DT05084	Import power conversion value ②(T4)	0.01	Unsigned 32bit	0 to 999999999	R
DT05085					
DT05086	Import power conversion value ③(T4)	0.01	Unsigned 32bit	0 to 999999999	R
DT05087					
DT05088	TotalImport power conversion value (T4)	0.01	Unsigned 32bit	0 to 2999999997	R
DT05089					
DT05090	Conversion value (1)	0.01	Unsigned 32bit	0 to 999999999	R
DT05091					
DT05092	Conversion value (2)	0.01	Unsigned 32bit	0 to 999999999	R
DT05093					
DT05094	Conversion value (3)	0.01	Unsigned 32bit	0 to 999999999	R
DT05095					
DT05096	Total conversion value	0.01	Unsigned 32bit	0 to 2999999997	R
DT05097					
DT10000+25*(MM-1)	Monthly max. demand date active power(T1)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower min,:01H to 12H	R
DT10000+25*(MM-1)+1	Monthly max. demand time active power(T1)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10000+25*(MM-1)+2	Monthly max. demand time active power(T1)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10000+25*(MM-1)+3	Monthly max.demand active power(T1)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10000+25*(MM-1)+4					
DT10005+25*(MM-1)	Monthly max. demand date active power(T2)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower min,:01H to 12H	R
DT10005+25*(MM-1)+1	Monthly max. demand time active power(T2)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10005+25*(MM-1)+2	Monthly max. demand time active power(T2)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10005+25*(MM-1)+3	Monthly max. demand active power(T2)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10005+25*(MM-1)+4					
DT10010+25*(MM-1)	Monthly max. demand date active power(T3)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower min,:01H to 12H	R
DT10010+25*(MM-1)+1	Monthly max. demand time active power(T3)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10010+25*(MM-1)+2	Monthly max. demand time active power(T3)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT10010+ 25*(MM-1)+3	Monthly max. demand active power(T3)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10010+ 25*(MM-1)+4					
DT10015+ 25*(MM-1)	Monthly max. demand date active power(T4)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower min.:01H to 12H	R
DT10015+ 25*(MM-1)+1	Monthly max. demand time active power(T4)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10015+ 25*(MM-1)+2	Monthly max. demand time active power(T4)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT10015+ 25*(MM-1)+3	Monthly max.demand active power(T4)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10015+ 25*(MM-1)+4					
DT10020+ 25*(MM-1)	Monthly max. demand date active power(T)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10020+ 25*(MM-1)+1	Monthly max. demand time active power(T)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10020+ 25*(MM-1)+2	Monthly max. demand time active power(T)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT10020+ 25*(MM-1)+3	Monthly max.demand active power(T)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10020+ 25*(MM-1)+4					
DT10300+ 25*(MM-1)	Monthly max. demand date reactive power(T1)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10300+ 25*(MM-1)+1	Monthly max. demand time reactive power(T1)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10300+ 25*(MM-1)+2	Monthly max. demand time reactive power(T1)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT10300+ 25*(MM-1)+3	Monthly max.demand reactive power(T1)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT10300+ 25*(MM-1)+4					
DT10305+ 25*(MM-1)	Monthly max. demand date reactive power(T2)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10305+ 25*(MM-1)+1	Monthly max. demand time reactive power(T2)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10305+ 25*(MM-1)+2	Monthly max. demand time reactive power(T2)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT10305+ 25*(MM-1)+3	Monthly max.demand reactive power(T2)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT10305+ 25*(MM-1)+4					
DT10310+ 25*(MM-1)	Monthly max. demand date reactive power(T3)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10310+ 25*(MM-1)+1	Monthly max. demand time reactive power(T3)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10310+ 25*(MM-1)+2	Monthly max. demand time reactive power(T3)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT10310+ 25*(MM-1)+3	Monthly max.demand reactive power(T3)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT10310+ 25*(MM-1)+4					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT10315+ 25*(MM-1)	Monthly max. demand date reactive power(T4)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT10315+ 25*(MM-1)+1	Monthly max. demand time reactive power(T4)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT10315+ 25*(MM-1)+2	Monthly max. demand time reactive power(T4)	—	Unsigned 16bit	Higher Lower min,:00H to 59H, ss:00H to 59H	R
DT10315+ 25*(MM-1)+3	Monthly max.demand reactive power(T4)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT10315+ 25*(MM-1)+4					
DT10320+ 25*(MM-1)	Monthly max. demand date reactive power(T)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT10320+ 25*(MM-1)+1	Monthly max. demand time reactive power(T)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT10320+ 25*(MM-1)+2	Monthly max. demand time reactive power(T)	—	Unsigned 16bit	Higher Lower min,:00H to 59H, ss:00H to 59H	R
DT10320+ 25*(MM-1)+3	Monthly max.demand reactive power(T)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT10320+ 25*(MM-1)+4					
DT10600+ 25*(MM-1)	Monthly max. demand date apparent power(T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT10600+ 25*(MM-1)+1	Monthly max. demand time apparent power(T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT10600+ 25*(MM-1)+2	Monthly max. demand time apparent power(T1)	—	Unsigned 16bit	Higher Lower min,:00H to 59H, ss:00H to 59H	R
DT10600+ 25*(MM-1)+3	Monthly max.demand apparent power(T1)	0.001kVA	Unsigned 32bit	0 to 2999999997	R
DT10600+ 25*(MM-1)+4					
DT10605+ 25*(MM-1)	Monthly max. demand date apparent power(T2)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT10605+ 25*(MM-1)+1	Monthly max. demand time apparent power(T2)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT10605+ 25*(MM-1)+2	Monthly max. demand time apparent power(T2)	—	Unsigned 16bit	Higher Lower min,:00H to 59H, ss:00H to 59H	R
DT10605+ 25*(MM-1)+3	Monthly max.demand apparent power(T2)	0.001kVA	Unsigned 32bit	0 to 2999999997	R
DT10605+ 25*(MM-1)+4					
DT10610+ 25*(MM-1)	Monthly max. demand date apparent power(T3)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT10610+ 25*(MM-1)+1	Monthly max. demand time apparent power(T3)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT10610+ 25*(MM-1)+2	Monthly max. demand time apparent power(T3)	—	Unsigned 16bit	Higher Lower min,:00H to 59H, ss:00H to 59H	R
DT10610+ 25*(MM-1)+3	Monthly max.demand apparent power(T3)	0.001kVA	Unsigned 32bit	0 to 2999999997	R
DT10610+ 25*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT10615+ 25*(MM-1)	Monthly max. demand date apparent power(T4)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10615+ 25*(MM-1)+1	Monthly max. demand time apparent power(T4)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10615+ 25*(MM-1)+2	Monthly max. demand time apparent power(T4)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10615+ 25*(MM-1)+3	Monthly max.demand apparent power(T4)	0.001kVA	Unsigned 32bit	0 to 2999999997	R
DT10615+ 25*(MM-1)+4					
DT10620+ 25*(MM-1)	Monthly max. demand date apparent power(T)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10620+ 25*(MM-1)+1	Monthly max. demand time apparent power(T)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10620+ 25*(MM-1)+2	Monthly max. demand time apparent power(T)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10620+ 25*(MM-1)+3	Monthly max.demand apparent power(T)	0.001kVA	Unsigned 32bit	0 to 2999999997	R
DT10620+ 25*(MM-1)+4					
DT10900+ 25*(MM-1)	Monthly max. demand date active power (export) (T1)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10900+ 25*(MM-1)+1	Monthly max. demand time active power (export) (T1)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10900+ 25*(MM-1)+2	Monthly max. demand time active power (export) (T1)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10900+ 25*(MM-1)+3	Monthly max.demand active power (export) (T1)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10900+ 25*(MM-1)+4					
DT10905+ 25*(MM-1)	Monthly max. demand date active power (export) (T2)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10905+ 25*(MM-1)+1	Monthly max. demand time active power (export) (T2)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10905+ 25*(MM-1)+2	Monthly max. demand time active power (export) (T2)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10905+ 25*(MM-1)+3	Monthly max.demand active power (export) (T2)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10905+ 25*(MM-1)+4					
DT10910+ 25*(MM-1)	Monthly max. demand date active power (export) (T3)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT10910+ 25*(MM-1)+1	Monthly max. demand time active power (export) (T3)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT10910+ 25*(MM-1)+2	Monthly max. demand time active power (export) (T3)	—	Unsigned 16bit	Higher min,:00H to 59H, Lower ss:00H to 59H	R
DT10910+ 25*(MM-1)+3	Monthly max.demand active power (export) (T3)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10910+ 25*(MM-1)+4					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT10915+ 25*(MM-1)	Monthly max. demand date active power (export) (T4)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT10915+ 25*(MM-1)+1	Monthly max. demand time active power (export) (T4)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT10915+ 25*(MM-1)+2	Monthly max. demand time active power (export) (T4)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT10915+ 25*(MM-1)+3	Monthly max.demand active power (export) (T4)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10915+ 25*(MM-1)+4					
DT10920+ 25*(MM-1)	Monthly max. demand date active power (export) (T)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT10920+ 25*(MM-1)+1	Monthly max. demand time active power (export) (T)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT10920+ 25*(MM-1)+2	Monthly max. demand time active power (export) (T)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT10920+ 25*(MM-1)+3	Monthly max.demand active power (export) (T)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT10920+ 25*(MM-1)+4					
DT11200+ 25*(MM-1)	Monthly max. demand date reactive power (export) (T1)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11200+ 25*(MM-1)+1	Monthly max. demand time reactive power (export) (T1)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11200+ 25*(MM-1)+2	Monthly max. demand time reactive power (export) (T1)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11200+ 25*(MM-1)+3	Monthly max.demand reactive power (export) (T1)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT11200+ 25*(MM-1)+4					
DT11205+ 25*(MM-1)	Monthly max. demand date reactive power (export) (T2)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11205+ 25*(MM-1)+1	Monthly max. demand time reactive power (export) (T2)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11205+ 25*(MM-1)+2	Monthly max. demand time reactive power (export) (T2)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11205+ 25*(MM-1)+3	Monthly max.demand reactive power (export) (T2)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT11205+ 25*(MM-1)+4					
DT11210+ 25*(MM-1)	Monthly max. demand date reactive power (export) (T3)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11210+ 25*(MM-1)+1	Monthly max. demand time reactive power (export) (T3)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11210+ 25*(MM-1)+2	Monthly max. demand time reactive power (export) (T3)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11210+ 25*(MM-1)+3	Monthly max.demand reactive power (export) (T3)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT11210+ 25*(MM-1)+4					
DT11215+ 25*(MM-1)	Monthly max. demand date reactive power (export) (T4)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11215+ 25*(MM-1)+1	Monthly max. demand time reactive power (export) (T4)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11215+ 25*(MM-1)+2	Monthly max. demand time reactive power (export) (T4)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11215+ 25*(MM-1)+3	Monthly max.demand reactive power (export) (T4)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT11215+ 25*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT11220+ 25*(MM-1)	Monthly max. demand date reactive power (export) (T)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11220+ 25*(MM-1)+1	Monthly max. demand time reactive power (export) (T)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11220+ 25*(MM-1)+2	Monthly max. demand time reactive power (export) (T)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11220+ 25*(MM-1)+3	Monthly max.demand reactive power (export) (T)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT11220+ 25*(MM-1)+4					
DT11500+ 40*(MM-1)	Monthly max. date instantaneous active power ^①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11500+ 40*(MM-1)+1	Monthly max. time instantaneous active power ^①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11500+ 40*(MM-1)+2	Monthly max. time instantaneous active power ^①	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11500+ 40*(MM-1)+3	Monthly max. instantaneous active power ^①	0.001kW	Unsigned 32bit	0 to 999999999	R
DT11500+ 40*(MM-1)+4					
DT11505+ 40*(MM-1)	Monthly max. date instantaneous active power ^②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11505+ 40*(MM-1)+1	Monthly max. time instantaneous active power ^②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11505+ 40*(MM-1)+2	Monthly max. time instantaneous active power ^②	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11505+ 40*(MM-1)+3	Monthly max. instantaneous active power ^②	0.001kW	Unsigned 32bit	0 to 999999999	R
DT11505+ 40*(MM-1)+4					
DT11510+ 40*(MM-1)	Monthly max. date instantaneous active power ^③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11510+ 40*(MM-1)+1	Monthly max. time instantaneous active power ^③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11510+ 40*(MM-1)+2	Monthly max. time instantaneous active power ^③	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11510+ 40*(MM-1)+3	Monthly max. instantaneous active power ^③	0.001kW	Unsigned 32bit	0 to 999999999	R
DT11510+ 40*(MM-1)+4					
DT11515+ 40*(MM-1)	Monthly max. date Total instantaneous active power	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11515+ 40*(MM-1)+1	Monthly max. time Total instantaneous active power	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11515+ 40*(MM-1)+2	Monthly max. time Total instantaneous active power	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11515+ 40*(MM-1)+3	Monthly max. total instantaneous active power	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT11515+ 40*(MM-1)+4					
DT11520+ 40*(MM-1)	Monthly min. date instantaneous active power ^①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	R
DT11520+ 40*(MM-1)+1	Monthly min. time instantaneous active power ^①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	R
DT11520+ 40*(MM-1)+2	Monthly min. time instantaneous active power ^①	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	R
DT11520+ 40*(MM-1)+3	Monthly min. instantaneous active power ^①	0.001kW	Unsigned 32bit	0 to 999999999	R
DT11520+ 40*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W	
DT11525+ 40*(MM-1)	Monthly min. date instantaneous active power ^②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT11525+ 40*(MM-1)+1	Monthly min. time instantaneous active power ^②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT11525+ 40*(MM-1)+2	Monthly min. time instantaneous active power ^②	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT11525+ 40*(MM-1)+3	Monthly min. instantaneous active power ^②	0.001kW	Unsigned 32bit	0 to 999999999		R
DT11525+ 40*(MM-1)+4						
DT11530+ 40*(MM-1)	Monthly min. date instantaneous active power ^③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT11530+ 40*(MM-1)+1	Monthly min. time instantaneous active power ^③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT11530+ 40*(MM-1)+2	Monthly min. time instantaneous active power ^③	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT11530+ 40*(MM-1)+3	Monthly min. instantaneous active power ^③	0.001kW	Unsigned 32bit	0 to 999999999		R
DT11530+ 40*(MM-1)+4						
DT11535+ 40*(MM-1)	Monthly min. date total instantaneous active power	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT11535+ 40*(MM-1)+1	Monthly min. time total instantaneous active power	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT11535+ 40*(MM-1)+2	Monthly min. time total instantaneous active power	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT11535+ 40*(MM-1)+3	Monthly min. total instantaneous active power	0.001kW	Unsigned 32bit	0 to 2999999997		R
DT11535+ 40*(MM-1)+4						
DT11980+ 40*(MM-1)	Monthly max. date reactive power ^①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT11980+ 40*(MM-1)+1	Monthly max. time reactive power ^①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT11980+ 40*(MM-1)+2	Monthly max. time reactive power ^①	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT11980+ 40*(MM-1)+3	Monthly max. reactive power ^①	0.001kvar	Unsigned 32bit	0 to 999999999		R
DT11980+ 40*(MM-1)+4						
DT11985+ 40*(MM-1)	Monthly max. date reactive power ^②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT11985+ 40*(MM-1)+1	Monthly max. time reactive power ^②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT11985+ 40*(MM-1)+2	Monthly max. time reactive power ^②	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT11985+ 40*(MM-1)+3	Monthly max. reactive power ^②	0.001kvar	Unsigned 32bit	0 to 999999999		R
DT11985+ 40*(MM-1)+4						
DT11990+ 40*(MM-1)	Monthly max. date reactive power ^③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT11990+ 40*(MM-1)+1	Monthly max. time reactive power ^③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT11990+ 40*(MM-1)+2	Monthly max. time reactive power ^③	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT11990+ 40*(MM-1)+3	Monthly max. reactive power ^③	0.001kvar	Unsigned 32bit	0 to 999999999		R
DT11990+ 40*(MM-1)+4						

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT11995+ 40*(MM-1)	Monthly max. date Total reactive power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT11995+ 40*(MM-1)+1	Monthly max. time total reactive power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT11995+ 40*(MM-1)+2	Monthly max. time total reactive power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT11995+ 40*(MM-1)+3	Monthly max. total reactive power	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT11995+ 40*(MM-1)+4					
DT12000+ 40*(MM-1)	Monthly min. date reactive power①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12000+ 40*(MM-1)+1	Monthly min. time reactive power①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12000+ 40*(MM-1)+2	Monthly min. time reactive power①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12000+ 40*(MM-1)+3	Monthly min. reactive power①	0.001kvar	Unsigned 32bit	0 to 9999999999	R
DT12000+ 40*(MM-1)+4					
DT12005+ 40*(MM-1)	Monthly min. date reactive power②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12005+ 40*(MM-1)+1	Monthly min. time reactive power②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12005+ 40*(MM-1)+2	Monthly min. time reactive power②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12005+ 40*(MM-1)+3	Monthly min. reactive power②	0.001kvar	Unsigned 32bit	0 to 9999999999	R
DT12005+ 40*(MM-1)+4					
DT12010+ 40*(MM-1)	Monthly min. date reactive power③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12010+ 40*(MM-1)+1	Monthly min. time reactive power③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12010+ 40*(MM-1)+2	Monthly min. time reactive power③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12010+ 40*(MM-1)+3	Monthly min. reactive power③	0.001kvar	Unsigned 32bit	0 to 9999999999	R
DT12010+ 40*(MM-1)+4					
DT12015+ 40*(MM-1)	Monthly min. date total reactive power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12015+ 40*(MM-1)+1	Monthly min. time total reactive power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12015+ 40*(MM-1)+2	Monthly min. time total reactive power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12015+ 40*(MM-1)+3	Monthly min. total reactive power	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT12015+ 40*(MM-1)+4					
DT12460+ 40*(MM-1)	Monthly max. date apparent power①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12460+ 40*(MM-1)+1	Monthly max. time apparent power①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12460+ 40*(MM-1)+2	Monthly max. time apparent power①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12460+ 40*(MM-1)+3	Monthly max. apparent power①	0.001kVA	Unsigned 32bit	0 to 9999999999	R
DT12460+ 40*(MM-1)+4					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT12465+ 40*(MM-1)	Monthly max. date apparent power ^②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12465+ 40*(MM-1)+1	Monthly max. time apparent power ^②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12465+ 40*(MM-1)+2	Monthly max. time apparent power ^②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12465+ 40*(MM-1)+3	Monthly max. apparent power ^②	0.001kVA	Unsigned 32bit	0 to 999999999	R
DT12465+ 40*(MM-1)+4					
DT12470+ 40*(MM-1)	Monthly max. date apparent power ^③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12470+ 40*(MM-1)+1	Monthly max. time apparent power ^③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12470+ 40*(MM-1)+2	Monthly max. time apparent power ^③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12470+ 40*(MM-1)+3	Monthly max. apparent power ^③	0.001kVA	Unsigned 32bit	0 to 999999999	R
DT12470+ 40*(MM-1)+4					
DT12475+ 40*(MM-1)	Monthly max. date total apparent power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12475+ 40*(MM-1)+1	Monthly max. time total apparent power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12475+ 40*(MM-1)+2	Monthly max. time total apparent power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12475+ 40*(MM-1)+3	Monthly max. total apparent power	0.001kVA	Unsigned 32bit	0 to 2999999997	R
DT12475+ 40*(MM-1)+4					
DT12480+ 40*(MM-1)	Monthly min. date apparent power ^①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12480+ 40*(MM-1)+1	Monthly min. time apparent power ^①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12480+ 40*(MM-1)+2	Monthly min. time apparent power ^①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12480+ 40*(MM-1)+3	Monthly min. apparent power ^①	0.001kVA	Unsigned 32bit	0 to 999999999	R
DT12480+ 40*(MM-1)+4					
DT12485+ 40*(MM-1)	Monthly min. date apparent power ^②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12485+ 40*(MM-1)+1	Monthly min. time apparent power ^②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12485+ 40*(MM-1)+2	Monthly min. time apparent power ^②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12485+ 40*(MM-1)+3	Monthly min. apparent power ^②	0.001kVA	Unsigned 32bit	0 to 999999999	R
DT12485+ 40*(MM-1)+4					
DT12490+ 40*(MM-1)	Monthly min. date apparent power ^③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12490+ 40*(MM-1)+1	Monthly min. time apparent power ^③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12490+ 40*(MM-1)+2	Monthly min. time apparent power ^③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12490+ 40*(MM-1)+3	Monthly min. apparent power ^③	0.001kVA	Unsigned 32bit	0 to 999999999	R
DT12490+ 40*(MM-1)+4					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W	
DT12495+ 40*(MM-1)	Monthly min. date total apparent power	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT12495+ 40*(MM-1)+1	Monthly min. time total apparent power	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT12495+ 40*(MM-1)+2	Monthly min. time total apparent power	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT12495+ 40*(MM-1)+3	Monthly min. total apparent power	0.001kVA	Unsigned 32bit	0 to 2999999997		R
DT12495+ 40*(MM-1)+4						
DT12940+ 40*(MM-1)	Monthly max. date active power (export) ①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT12940+ 40*(MM-1)+1	Monthly max. time active power (export) ①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT12940+ 40*(MM-1)+2	Monthly max. time active power (export) ①	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT12940+ 40*(MM-1)+3	Monthly max. active power (export) ①	0.001kW	Unsigned 32bit	0 to 999999999		R
DT12940+ 40*(MM-1)+4						
DT12945+ 40*(MM-1)	Monthly max. date active power (export) ②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT12945+ 40*(MM-1)+1	Monthly max. time active power (export) ②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT12945+ 40*(MM-1)+2	Monthly max. time active power (export) ②	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT12945+ 40*(MM-1)+3	Monthly max. active power (export) ②	0.001kW	Unsigned 32bit	0 to 999999999		R
DT12945+ 40*(MM-1)+4						
DT12950+ 40*(MM-1)	Monthly max. date active power (export) ③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT12950+ 40*(MM-1)+1	Monthly max. time active power (export) ③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT12950+ 40*(MM-1)+2	Monthly max. time active power (export) ③	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT12950+ 40*(MM-1)+3	Monthly max. active power (export) ③	0.001kW	Unsigned 32bit	0 to 999999999		R
DT12950+ 40*(MM-1)+4						
DT12955+ 40*(MM-1)	Monthly max. date totalactive power (export)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT12955+ 40*(MM-1)+1	Monthly max. time totalactive power (export)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT12955+ 40*(MM-1)+2	Monthly max. time totalactive power (export)	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT12955+ 40*(MM-1)+3	Monthly max. totalactive power (export)	0.001kW	Unsigned 32bit	0 to 2999999997		R
DT12955+ 40*(MM-1)+4						
DT12960+ 40*(MM-1)	Monthly min. date active power (export) ①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower mm:01H to 12H	R
DT12960+ 40*(MM-1)+1	Monthly min. time active power (export) ①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower hh:00H to 23H	R
DT12960+ 40*(MM-1)+2	Monthly min. time active power (export) ①	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H	Lower ss:00H to 59H	R
DT12960+ 40*(MM-1)+3	Monthly min. active power (export) ①	0.001kW	Unsigned 32bit	0 to 999999999		R
DT12960+ 40*(MM-1)+4						

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Data register	Name	Unit	Kind of data	Range	R/W
DT12965+ 40*(MM-1)	Monthly min. date active power (export) ②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12965+ 40*(MM-1)+1	Monthly min. time active power (export) ②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12965+ 40*(MM-1)+2	Monthly min. time active power (export) ②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12965+ 40*(MM-1)+3	Monthly min. active power (export) ②	0.001kW	Unsigned 32bit	0 to 999999999	R
DT12965+ 40*(MM-1)+4					
DT12970+ 40*(MM-1)	Monthly min. date active power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12970+ 40*(MM-1)+1	Monthly min. time active power (export) ③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12970+ 40*(MM-1)+2	Monthly min. time active power (export) ③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12970+ 40*(MM-1)+3	Monthly min. active power (export) ③	0.001kW	Unsigned 32bit	0 to 999999999	R
DT12970+ 40*(MM-1)+4					
DT12975+ 40*(MM-1)	Monthly min. date totalactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT12975+ 40*(MM-1)+1	Monthly min. time totalactive power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT12975+ 40*(MM-1)+2	Monthly min. time totalactive power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT12975+ 40*(MM-1)+3	Monthly min. totalactive power (export)	0.001kW	Unsigned 32bit	0 to 2999999997	R
DT12975+ 40*(MM-1)+4					
DT13420+ 40*(MM-1)	Monthly max. date reactive power (export) ①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13420+ 40*(MM-1)+1	Monthly max. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13420+ 40*(MM-1)+2	Monthly max. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13420+ 40*(MM-1)+3	Monthly max. reactive power (export) ①	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT13420+ 40*(MM-1)+4					
DT13425+ 40*(MM-1)	Monthly max. date reactive power (export) ②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13425+ 40*(MM-1)+1	Monthly max. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13425+ 40*(MM-1)+2	Monthly max. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13425+ 40*(MM-1)+3	Monthly max. reactive power (export) ②	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT13425+ 40*(MM-1)+4					
DT13430+ 40*(MM-1)	Monthly max. date reactive power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13430+ 40*(MM-1)+1	Monthly max. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13430+ 40*(MM-1)+2	Monthly max. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13430+ 40*(MM-1)+3	Monthly max. reactive power (export) ③	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT13430+ 40*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT13435+ 40*(MM-1)	Monthly max. date total reactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13435+ 40*(MM-1)+1	Monthly max. time total reactive power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13435+ 40*(MM-1)+2	Monthly max. time total reactive power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13435+ 40*(MM-1)+3	Monthly max. total reactive power (export)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT13435+ 40*(MM-1)+4					
DT13440+ 40*(MM-1)	Monthly min. date reactive power (export) ①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13440+ 40*(MM-1)+1	Monthly min. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13440+ 40*(MM-1)+2	Monthly min. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13440+ 40*(MM-1)+3	Monthly min. reactive power (export) ①	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT13440+ 40*(MM-1)+4					
DT13445+ 40*(MM-1)	Monthly min. date reactive power (export) ②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13445+ 40*(MM-1)+1	Monthly min. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13445+ 40*(MM-1)+2	Monthly min. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13445+ 40*(MM-1)+3	Monthly min. reactive power (export) ②	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT13445+ 40*(MM-1)+4					
DT13450+ 40*(MM-1)	Monthly min. date reactive power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13450+ 40*(MM-1)+1	Monthly min. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13450+ 40*(MM-1)+2	Monthly min. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13450+ 40*(MM-1)+3	Monthly min. reactive power (export) ③	0.001kvar	Unsigned 32bit	0 to 999999999	R
DT13450+ 40*(MM-1)+4					
DT13455+ 40*(MM-1)	Monthly min. date total reactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13455+ 40*(MM-1)+1	Monthly min. time total reactive power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13455+ 40*(MM-1)+2	Monthly min. time total reactive power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13455+ 40*(MM-1)+3	Monthly min. total reactive power (export)	0.001kvar	Unsigned 32bit	0 to 2999999997	R
DT13455+ 40*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT13900+ 50*(MM-1)	Monthly max. date current①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13900+ 50*(MM-1)+1	Monthly max. time current①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13900+ 50*(MM-1)+2	Monthly max. time current①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13900+ 50*(MM-1)+3	Monthly max. current①	0.001A	Unsigned 32bit	0 to 999999999	R
DT13900+ 50*(MM-1)+4					
DT13905+ 50*(MM-1)	Monthly max. date current②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13905+ 50*(MM-1)+1	Monthly max. time current②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13905+ 50*(MM-1)+2	Monthly max. time current②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13905+ 50*(MM-1)+3	Monthly max.current②	0.001A	Unsigned 32bit	0 to 999999999	R
DT13905+ 50*(MM-1)+4					
DT13910+ 50*(MM-1)	Monthly max. date current③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13910+ 50*(MM-1)+1	Monthly max. time current③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13910+ 50*(MM-1)+2	Monthly max. time current③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13910+ 50*(MM-1)+3	Monthly max. current③	0.001A	Unsigned 32bit	0 to 999999999	R
DT13910+ 50*(MM-1)+4					
DT13915+ 50*(MM-1)	Monthly max. date current phaseN	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13915+ 50*(MM-1)+1	Monthly max. time current phaseN	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13915+ 50*(MM-1)+2	Monthly max. time current phaseN	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13915+ 50*(MM-1)+3	Monthly max. current phaseN	0.001A	Unsigned 32bit	0 to 999999999	R
DT13915+ 50*(MM-1)+4					
DT13920+ 50*(MM-1)	Monthly max. date current average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13920+ 50*(MM-1)+1	Monthly max. time current average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13920+ 50*(MM-1)+2	Monthly max. time current average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13920+ 50*(MM-1)+3	Monthly max. current average	0.001A	Unsigned 32bit	0 to 999999999	R
DT13920+ 50*(MM-1)+4					
DT13925+ 50*(MM-1)	Monthly min. date current①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT13925+ 50*(MM-1)+1	Monthly min. time current①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT13925+ 50*(MM-1)+2	Monthly min. time current①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT13925+ 50*(MM-1)+3	Monthly min. current①	0.001A	Unsigned 32bit	0 to 999999999	R
DT13925+ 50*(MM-1)+4					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT13930+ 50*(MM-1)	Monthly min. date current②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT13930+ 50*(MM-1)+1	Monthly min. time current②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT13930+ 50*(MM-1)+2	Monthly min. time current②	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT13930+ 50*(MM-1)+3	Monthly min. current②	0.001A	Unsigned 32bit	0 to 999999999	R
DT13930+ 50*(MM-1)+4					
DT13935+ 50*(MM-1)	Monthly min. date current③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT13935+ 50*(MM-1)+1	Monthly min. time current③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT13935+ 50*(MM-1)+2	Monthly min. time current③	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT13935+ 50*(MM-1)+3	Monthly min. current③	0.001A	Unsigned 32bit	0 to 999999999	R
DT13935+ 50*(MM-1)+4					
DT13940+ 50*(MM-1)	Monthly min. date current phaseN	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT13940+ 50*(MM-1)+1	Monthly min. time current phaseN	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT13940+ 50*(MM-1)+2	Monthly min. time current phaseN	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT13940+ 50*(MM-1)+3	Monthly min. current phaseN	0.001A	Unsigned 32bit	0 to 999999999	R
DT13940+ 50*(MM-1)+4					
DT13945+ 50*(MM-1)	Monthly min. date current average	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT13945+ 50*(MM-1)+1	Monthly min. time current average	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT13945+ 50*(MM-1)+2	Monthly min. time current average	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT13945+ 50*(MM-1)+3	Monthly min. current average	0.001A	Unsigned 32bit	0 to 999999999	R
DT13945+ 50*(MM-1)+4					
DT14500+ 40*(MM-1)	Monthly max. date Phase voltage①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT14500+ 40*(MM-1)+1	Monthly max. time Phase voltage①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT14500+ 40*(MM-1)+2	Monthly max. time Phase voltage①	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT14500+ 40*(MM-1)+3	Monthly max. Phase voltage①	0.01V	Unsigned 32bit	0 to 999999999	R
DT14500+ 40*(MM-1)+4					
DT14505+ 40*(MM-1)	Monthly max. date Phase voltage②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT14505+ 40*(MM-1)+1	Monthly max. time Phase voltage②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT14505+ 40*(MM-1)+2	Monthly max. time Phase voltage②	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT14505+ 40*(MM-1)+3	Monthly max. Phase voltage②	0.01V	Unsigned 32bit	0 to 999999999	R
DT14505+ 40*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT14510+ 40*(MM-1)	Monthly max. date Phase voltage③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT14510+ 40*(MM-1)+1	Monthly max. time Phase voltage③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT14510+ 40*(MM-1)+2	Monthly max. time Phase voltage③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT14510+ 40*(MM-1)+3	Monthly max. Phase voltage③	0.01V	Unsigned 32bit	0 to 999999999	R
DT14510+ 40*(MM-1)+4					
DT14515+ 40*(MM-1)	Monthly max. date Phase voltage average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT14515+ 40*(MM-1)+1	Monthly max. time Phase voltage average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT14515+ 40*(MM-1)+2	Monthly max. time Phase voltage average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT14515+ 40*(MM-1)+3	Monthly max. Phase voltage average	0.01V	Unsigned 32bit	0 to 999999999	R
DT14515+ 40*(MM-1)+4					
DT14520+ 40*(MM-1)	Monthly min. date Phase voltage①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT14520+ 40*(MM-1)+1	Monthly min. time Phase voltage①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT14520+ 40*(MM-1)+2	Monthly min. time Phase voltage①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT14520+ 40*(MM-1)+3	Monthly min. Phase voltage①	0.01V	Unsigned 32bit	0 to 999999999	R
DT14520+ 40*(MM-1)+4					
DT14525+ 40*(MM-1)	Monthly min. date Phase voltage②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT14525+ 40*(MM-1)+1	Monthly min. time Phase voltage②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT14525+ 40*(MM-1)+2	Monthly min. time Phase voltage②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT14525+ 40*(MM-1)+3	Monthly min. Phase voltage②	0.01V	Unsigned 32bit	0 to 999999999	R
DT14525+ 40*(MM-1)+4					
DT14530+ 40*(MM-1)	Monthly min. date Phase voltage③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT14530+ 40*(MM-1)+1	Monthly min. time Phase voltage③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT14530+ 40*(MM-1)+2	Monthly min. time Phase voltage③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT14530+ 40*(MM-1)+3	Monthly min. Phase voltage③	0.01V	Unsigned 32bit	0 to 999999999	R
DT14530+ 40*(MM-1)+4					
DT14535+ 40*(MM-1)	Monthly min. date Phase voltage average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT14535+ 40*(MM-1)+1	Monthly min. time Phase voltage average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT14535+ 40*(MM-1)+2	Monthly min. time Phase voltage average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT14535+ 40*(MM-1)+3	Monthly min. Phase voltage average	0.01V	Unsigned 32bit	0 to 999999999	R
DT14535+ 40*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT14980+ 40*(MM-1)	Monthly max. date Line voltage 1-2	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT14980+ 40*(MM-1)+1	Monthly max. time Line voltage 1-2	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT14980+ 40*(MM-1)+2	Monthly max. time Line voltage 1-2	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT14980+ 40*(MM-1)+3	Monthly max. Line voltage 1-2	0.01V	Unsigned 32bit	0 to 999999999	R
DT14980+ 40*(MM-1)+4					
DT14985+ 40*(MM-1)	Monthly max. date Line voltage 2-3	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT14985+ 40*(MM-1)+1	Monthly max. time Line voltage 2-3	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT14985+ 40*(MM-1)+2	Monthly max. time Line voltage 2-3	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT14985+ 40*(MM-1)+3	Monthly max. Line voltage 2-3	0.01V	Unsigned 32bit	0 to 999999999	R
DT14985+ 40*(MM-1)+4					
DT14990+ 40*(MM-1)	Monthly max. date Line voltage 3-1	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT14990+ 40*(MM-1)+1	Monthly max. time Line voltage 3-1	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT14990+ 40*(MM-1)+2	Monthly max. time Line voltage 3-1	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT14990+ 40*(MM-1)+3	Monthly max. Line voltage 3-1	0.01V	Unsigned 32bit	0 to 999999999	R
DT14990+ 40*(MM-1)+4					
DT14995+ 40*(MM-1)	Monthly max. date Line voltage average	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT14995+ 40*(MM-1)+1	Monthly max. time Line voltage average	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT14995+ 40*(MM-1)+2	Monthly max. time Line voltage average	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT14995+ 40*(MM-1)+3	Monthly max. Line voltage average	0.01V	Unsigned 32bit	0 to 999999999	R
DT14995+ 40*(MM-1)+4					
DT15000+ 40*(MM-1)	Monthly min. date Line voltage 1-2	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT15000+ 40*(MM-1)+1	Monthly min. time Line voltage 1-2	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT15000+ 40*(MM-1)+2	Monthly min. time Line voltage 1-2	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT15000+ 40*(MM-1)+3	Monthly min. Line voltage 1-2	0.01V	Unsigned 32bit	0 to 999999999	R
DT15000+ 40*(MM-1)+4					
DT15005+ 40*(MM-1)	Monthly min. date Line voltage 2-3	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT15005+ 40*(MM-1)+1	Monthly min. time Line voltage 2-3	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT15005+ 40*(MM-1)+2	Monthly min. time Line voltage 2-3	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT15005+ 40*(MM-1)+3	Monthly min. Line voltage 2-3	0.01V	Unsigned 32bit	0 to 999999999	R
DT15005+ 40*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W	
DT15010+ 40*(MM-1)	Monthly min. date Line voltage 3-1	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15010+ 40*(MM-1)+1	Monthly min. time Line voltage 3-1	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15010+ 40*(MM-1)+2	Monthly min. time Line voltage 3-1	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15010+ 40*(MM-1)+3	Monthly min. Line voltage 3-1	0.01V	Unsigned 32bit	0 to 999999999		R
DT15010+ 40*(MM-1)+4						
DT15015+ 40*(MM-1)	Monthly min. date Line voltage average	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15015+ 40*(MM-1)+1	Monthly min. time Line voltage average	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15015+ 40*(MM-1)+2	Monthly min. time Line voltage average	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15015+ 40*(MM-1)+3	Monthly min. Line voltage average	0.01V	Unsigned 32bit	0 to 999999999		R
DT15015+ 40*(MM-1)+4						
DT15460+ 32*(MM-1)	Monthly max. date PF①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15460+ 32*(MM-1)+1	Monthly max. time PF①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15460+ 32*(MM-1)+2	Monthly max. time PF①	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15460+ 32*(MM-1)+3	Monthly max. PF①	0.001	Signed 16bit	-1000 to 1000		R
DT15464+ 32*(MM-1)	Monthly max. date PF②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15464+ 32*(MM-1)+1	Monthly max. time PF②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15464+ 32*(MM-1)+2	Monthly max. time PF②	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15464+ 32*(MM-1)+3	Monthly max. PF②	0.001	Signed 16bit	-1000 to 1000		R
DT15468+ 32*(MM-1)	Monthly max. date PF③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15468+ 32*(MM-1)+1	Monthly max. time PF③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15468+ 32*(MM-1)+2	Monthly max. time PF③	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15468+ 32*(MM-1)+3	Monthly max. PF③	0.001	Signed 16bit	-1000 to 1000		R
DT15472+ 32*(MM-1)	Monthly max. date PF average	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15472+ 32*(MM-1)+1	Monthly max. time PF average	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15472+ 32*(MM-1)+2	Monthly max. time PF average	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15472+ 32*(MM-1)+3	Monthly max. PF average	0.001	Signed 16bit	-1000 to 1000		R
DT15476+ 32*(MM-1)	Monthly min. date PF①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower Lower	R
DT15476+ 32*(MM-1)+1	Monthly min. time PF①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower Lower	R
DT15476+ 32*(MM-1)+2	Monthly min. time PF①	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower Lower	R
DT15476+ 32*(MM-1)+3	Monthly min. PF①	0.001	Signed 16bit	-1000 to 1000		R

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Data register	Name	Unit	Kind of data	Range	R/W
DT15480+ 32*(MM-1)	Monthly min. date PF②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15480+ 32*(MM-1)+1	Monthly min. time PF②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15480+ 32*(MM-1)+2	Monthly min. time PF②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15480+ 32*(MM-1)+3	Monthly min. PF②	0.001	Signed 16bit	-1000 to 1000	R
DT15484+ 32*(MM-1)	Monthly min. date PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15484+ 32*(MM-1)+1	Monthly min. time PF③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15484+ 32*(MM-1)+2	Monthly min. time PF③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15484+ 32*(MM-1)+3	Monthly min. PF③	0.001	Signed 16bit	-1000 to 1000	R
DT15488+ 32*(MM-1)	Monthly min. date PF average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15488+ 32*(MM-1)+1	Monthly min. time PF average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15488+ 32*(MM-1)+2	Monthly min. time PF average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15488+ 32*(MM-1)+3	Monthly min. PF average	0.001	Signed 16bit	-1000 to 1000	R
DT15844+ 32*(MM-1)	Monthly max. date Frequency①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15844+ 32*(MM-1)+1	Monthly max. time Frequency①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15844+ 32*(MM-1)+2	Monthly max. time Frequency①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15844+ 32*(MM-1)+3	Monthly max. Frequency①	0.01Hz	Unsigned 16bit	0 to 9999	R
DT15848+ 32*(MM-1)	Monthly max. date Frequency②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15848+ 32*(MM-1)+1	Monthly max. time Frequency②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15848+ 32*(MM-1)+2	Monthly max. time Frequency②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15848+ 32*(MM-1)+3	Monthly max. Frequency②	0.01Hz	Unsigned 16bit	0 to 9999	R
DT15852+ 32*(MM-1)	Monthly max. date Frequency③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15852+ 32*(MM-1)+1	Monthly max. time Frequency③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15852+ 32*(MM-1)+2	Monthly max. time Frequency③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15852+ 32*(MM-1)+3	Monthly max. Frequency③	0.01Hz	Unsigned 16bit	0 to 9999	R
DT15856+ 32*(MM-1)	Monthly max. date Frequency average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15856+ 32*(MM-1)+1	Monthly max. time Frequency average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15856+ 32*(MM-1)+2	Monthly max. time Frequency average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15856+ 32*(MM-1)+3	Monthly max. Frequency average	0.01Hz	Unsigned 16bit	0 to 9999	R

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Data register	Name	Unit	Kind of data	Range	R/W
DT15860+ 32*(MM-1)	Monthly min. date Frequency①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15860+ 32*(MM-1)+1	Monthly min. time Frequency①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15860+ 32*(MM-1)+2	Monthly min. time Frequency①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15860+ 32*(MM-1)+3	Monthly min. Frequency①	0.01Hz	Unsigned 16bit	0 to 9999	R
DT15864+ 32*(MM-1)	Monthly min. date Frequency②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15864+ 32*(MM-1)+1	Monthly min. time Frequency②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15864+ 32*(MM-1)+2	Monthly min. time Frequency②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15864+ 32*(MM-1)+3	Monthly min. Frequency②	0.01Hz	Unsigned 16bit	0 to 9999	R
DT15868+ 32*(MM-1)	Monthly min. date Frequency③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15868+ 32*(MM-1)+1	Monthly min. time Frequency③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15868+ 32*(MM-1)+2	Monthly min. time Frequency③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15868+ 32*(MM-1)+3	Monthly min. Frequency③	0.01Hz	Unsigned 16bit	0 to 9999	R
DT15872+ 32*(MM-1)	Monthly min. date Frequency average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT15872+ 32*(MM-1)+1	Monthly min. time Frequency average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT15872+ 32*(MM-1)+2	Monthly min. time Frequency average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT15872+ 32*(MM-1)+3	Monthly min. Frequency average	0.01Hz	Unsigned 16bit	0 to 9999	R
DT16228+ 10*(MM-1)	Monthly max. date voltage unbalancing	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT16228+ 10*(MM-1)+1	Monthly max. time voltage unbalancing	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT16228+ 10*(MM-1)+2	Monthly max. time voltage unbalancing	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT16228+ 10*(MM-1)+3	Monthly max. voltage unbalancing	0.001%	Unsigned 32bit	0 to 999999	R
DT16228+ 10*(MM-1)+4					
DT16233+ 10*(MM-1)	Monthly min. date voltage unbalancing	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT16233+ 10*(MM-1)+1	Monthly min. time voltage unbalancing	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT16233+ 10*(MM-1)+2	Monthly min. time voltage unbalancing	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT16233+ 10*(MM-1)+3	Monthly min. voltage unbalancing	0.001%	Unsigned 32bit	0 to 999999	R
DT16233+ 10*(MM-1)+4					

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Data register	Name	Unit	Kind of data	Range	R/W
DT16348+ 10*(MM-1)	Monthly max. date current unbalancing	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT16348+ 10*(MM-1)+1	Monthly max. time current unbalancing	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT16348+ 10*(MM-1)+2	Monthly max. time current unbalancing	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT16348+ 10*(MM-1)+3	Monthly max. current unbalancing	0.001%	Unsigned 32bit	0 to 999999	R
DT16348+ 10*(MM-1)+4					
DT16353+ 10*(MM-1)	Monthly min. date current unbalancing	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	R
DT16353+ 10*(MM-1)+1	Monthly min. time current unbalancing	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	R
DT16353+ 10*(MM-1)+2	Monthly min. time current unbalancing	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	R
DT16353+ 10*(MM-1)+3	Monthly min. current unbalancing	0.001%	Unsigned 32bit	0 to 999999	R
DT16353+ 10*(MM-1)+4					
DT16468+ 40*(MM-1)	Monthly integral active power①(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16468+ 40*(MM-1)+1					
DT16470+ 40*(MM-1)	Monthly integral active power②(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16470+ 40*(MM-1)+1					
DT16472+ 40*(MM-1)	Monthly integral active power③(T1)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16472+ 40*(MM-1)+1					
DT16474+ 40*(MM-1)	Monthly total integral active power(T1)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT16474+ 40*(MM-1)+1					
DT16476+ 40*(MM-1)	Monthly integral active power①(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16476+ 40*(MM-1)+1					
DT16478+ 40*(MM-1)	Monthly integral active power②(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16478+ 40*(MM-1)+1					
DT16480+ 40*(MM-1)	Monthly integral active power③(T2)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16480+ 40*(MM-1)+1					
DT16482+ 40*(MM-1)	Monthly total integral active power(T2)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT16482+ 40*(MM-1)+1					
DT16484+ 40*(MM-1)	Monthly integral active power①(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16484+ 40*(MM-1)+1					
DT16486+ 40*(MM-1)	Monthly integral active power②(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16486+ 40*(MM-1)+1					
DT16488+ 40*(MM-1)	Monthly integral active power③(T3)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16488+ 40*(MM-1)+1					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT16490+ 40*(MM-1)	Monthly total integral active power(T3)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT16490+ 40*(MM-1)+1					
DT16492+ 40*(MM-1)	Monthly integral active power①(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16492+ 40*(MM-1)+1					
DT16494+ 40*(MM-1)	Monthly integral active power②(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16494+ 40*(MM-1)+1					
DT16496+ 40*(MM-1)	Monthly integral active power③(T4)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16496+ 40*(MM-1)+1					
DT16498+ 40*(MM-1)	Monthly total integral active power(T4)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT16498+ 40*(MM-1)+1					
DT16500+ 40*(MM-1)	Monthly integral active power①(T)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16500+ 40*(MM-1)+1					
DT16502+ 40*(MM-1)	Monthly integral active power②(T)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16502+ 40*(MM-1)+1					
DT16504+ 40*(MM-1)	Monthly integral active power③(T)	0.001kWh	Unsigned 32bit	0 to 999999999	R
DT16504+ 40*(MM-1)+1					
DT16506+ 40*(MM-1)	Monthly total integral active power(T)	0.001kWh	Unsigned 32bit	0 to 2999999997	R
DT16506+ 40*(MM-1)+1					
DT16948+ 40*(MM-1)	Monthly integral reactive power①(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16948+ 40*(MM-1)+1					
DT16950+ 40*(MM-1)	Monthly integral reactive power②(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16950+ 40*(MM-1)+1					
DT16952+ 40*(MM-1)	Monthly integral reactive power③(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16952+ 40*(MM-1)+1					
DT16954+ 40*(MM-1)	Monthly totalintegral reactive power(T1)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT16954+ 40*(MM-1)+1					
DT16956+ 40*(MM-1)	Monthly integral reactive power①(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16956+ 40*(MM-1)+1					
DT16958+ 40*(MM-1)	Monthly integral reactive power②(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16958+ 40*(MM-1)+1					
DT16960+ 40*(MM-1)	Monthly integral reactive power③(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16960+ 40*(MM-1)+1					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT16962+ 40*(MM-1)	Monthly total integral reactive power(T2)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT16962+ 40*(MM-1)+1					
DT16964+ 40*(MM-1)	Monthly integral reactive power①(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16964+ 40*(MM-1)+1					
DT16966+ 40*(MM-1)	Monthly integral reactive power②(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16966+ 40*(MM-1)+1					
DT16968+ 40*(MM-1)	Monthly integral reactive Power③(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16968+ 40*(MM-1)+1					
DT16970+ 40*(MM-1)	Monthly total integral reactive power(T3)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT16970+ 40*(MM-1)+1					
DT16972+ 40*(MM-1)	Monthly integral reactive power①(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16972+ 40*(MM-1)+1					
DT16974+ 40*(MM-1)	Monthly integral reactive power②(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16974+ 40*(MM-1)+1					
DT16976+ 40*(MM-1)	Monthly integral reactive power③(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16976+ 40*(MM-1)+1					
DT16978+ 40*(MM-1)	Monthly total integral reactive power(T4)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT16978+ 40*(MM-1)+1					
DT16980+ 40*(MM-1)	Monthly integral reactive power①(T)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16980+ 40*(MM-1)+1					
DT16982+ 40*(MM-1)	Monthly integral reactive power②(T)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16982+ 40*(MM-1)+1					
DT16984+ 40*(MM-1)	Monthly integral reactive power③(T)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT16984+ 40*(MM-1)+1					
DT16986+ 40*(MM-1)	Monthly total integral reactive power(T)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT16986+ 40*(MM-1)+1					
DT17428+ 40*(MM-1)	Monthly integral apparent power①(T1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17428+ 40*(MM-1)+1					
DT17430+ 40*(MM-1)	Monthly integral apparent power②(T1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17430+ 40*(MM-1)+1					
DT17432+ 40*(MM-1)	Monthly integral apparent power③(T1)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17432+ 40*(MM-1)+1					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT17434+ 40*(MM-1)	Monthly total integral apparent power(T1)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT17434+ 40*(MM-1)+1					
DT17436+ 40*(MM-1)	Monthly integral apparent power①(T2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17436+ 40*(MM-1)+1					
DT17438+ 40*(MM-1)	Monthly integral apparent power②(T2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17438+ 40*(MM-1)+1					
DT17440+ 40*(MM-1)	Monthly integral apparent power③(T2)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17440+ 40*(MM-1)+1					
DT17442+ 40*(MM-1)	Monthly total integral apparent power(T2)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT17442+ 40*(MM-1)+1					
DT17444+ 40*(MM-1)	Monthly integral apparent power①(T3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17444+ 40*(MM-1)+1					
DT17446+ 40*(MM-1)	Monthly integral apparent power②(T3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17446+ 40*(MM-1)+1					
DT17448+ 40*(MM-1)	Monthly integral apparent power③(T3)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17448+ 40*(MM-1)+1					
DT17450+ 40*(MM-1)	Monthly total integral apparent power(T3)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT17450+ 40*(MM-1)+1					
DT17452+ 40*(MM-1)	Monthly integral apparent power①(T4)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17452+ 40*(MM-1)+1					
DT17454+ 40*(MM-1)	Monthly integral apparent power②(T4)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17454+ 40*(MM-1)+1					
DT17456+ 40*(MM-1)	Monthly integral apparent power③(T4)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17456+ 40*(MM-1)+1					
DT17458+ 40*(MM-1)	Monthly total integral apparent power(T4)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT17458+ 40*(MM-1)+1					
DT17460+ 40*(MM-1)	Monthly integral apparent power①(T)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17460+ 40*(MM-1)+1					
DT17462+ 40*(MM-1)	Monthly integral apparent power②(T)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17462+ 40*(MM-1)+1					
DT17464+ 40*(MM-1)	Monthly integral apparent power③(T)	0.001 kVAh	Unsigned 32bit	0 to 999999999	R
DT17464+ 40*(MM-1)+1					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT17466+ 40*(MM-1)	Monthly total integral apparent power(T)	0.001 kVAh	Unsigned 32bit	0 to 2999999997	R
DT17466+ 40*(MM-1)+1					
DT17908+ 40*(MM-1)	Monthly Integral active power (export) ①(T1)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17908+ 40*(MM-1)+1					
DT17910+ 40*(MM-1)	Monthly Integral active power (export) ②(T1)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17910+ 40*(MM-1)+1					
DT17912+ 40*(MM-1)	Monthly Integral active power (export) ③(T1)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17912+ 40*(MM-1)+1					
DT17914+ 40*(MM-1)	Monthly total Integral active power (export) (T1)	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT17914+ 40*(MM-1)+1					
DT17916+ 40*(MM-1)	Monthly Integral active power (export) ①(T2)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17916+ 40*(MM-1)+1					
DT17918+ 40*(MM-1)	Monthly Integral active power (export) ②(T2)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17918+ 40*(MM-1)+1					
DT17920+ 40*(MM-1)	Monthly Integral active power (export) ③(T2)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17920+ 40*(MM-1)+1					
DT17922+ 40*(MM-1)	Monthly total Integral active power (export) (T2)	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT17922+ 40*(MM-1)+1					
DT17924+ 40*(MM-1)	Monthly Integral active power (export) ①(T3)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17924+ 40*(MM-1)+1					
DT17926+ 40*(MM-1)	Monthly Integral active power (export) ②(T3)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17926+ 40*(MM-1)+1					
DT17928+ 40*(MM-1)	Monthly Integral active power (export) ③(T3)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17928+ 40*(MM-1)+1					
DT17930+ 40*(MM-1)	Monthly total Integral active power (export) (T3)	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT17930+ 40*(MM-1)+1					
DT17932+ 40*(MM-1)	Monthly Integral active power (export) ①(T4)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17932+ 40*(MM-1)+1					
DT17934+ 40*(MM-1)	Monthly Integral active power (export) ②(T4)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17934+ 40*(MM-1)+1					
DT17936+ 40*(MM-1)	Monthly Integral active power (export) ③(T4)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17936+ 40*(MM-1)+1					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT17938+ 40*(MM-1)	Monthly total Integral active power (export) (T4)	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT17938+ 40*(MM-1)+1					
DT17940+ 40*(MM-1)	Monthly Integral active power (export) ①(T)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17940+ 40*(MM-1)+1					
DT17942+ 40*(MM-1)	Monthly Integral active power (export) ②(T)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17942+ 40*(MM-1)+1					
DT17944+ 40*(MM-1)	Monthly Integral active power (export) ③(T)	0.001 kWh	Unsigned 32bit	0 to 999999999	R
DT17944+ 40*(MM-1)+1					
DT17946+ 40*(MM-1)	Monthly total Integral active power (export) (T)	0.001 kWh	Unsigned 32bit	0 to 2999999997	R
DT17946+ 40*(MM-1)+1					
DT18388+ 40*(MM-1)	Monthly Integral reactive power (export) ①(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18388+ 40*(MM-1)+1					
DT18390+ 40*(MM-1)	Monthly Integral reactive power (export) ②(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18390+ 40*(MM-1)+1					
DT18392+ 40*(MM-1)	Monthly Integral reactive power (export) ③(T1)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18392+ 40*(MM-1)+1					
DT18394+ 40*(MM-1)	Monthly total Integral reactive power (export) (T1)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT18394+ 40*(MM-1)+1					
DT18396+ 40*(MM-1)	Monthly Integral reactive power (export) ①(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18396+ 40*(MM-1)+1					
DT18398+ 40*(MM-1)	Monthly Integral reactive power (export) ②(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18398+ 40*(MM-1)+1					
DT18400+ 40*(MM-1)	Monthly Integral reactive power (export) ③(T2)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18400+ 40*(MM-1)+1					
DT18402+ 40*(MM-1)	Monthly total Integral reactive power (export) (T2)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT18402+ 40*(MM-1)+1					
DT18404+ 40*(MM-1)	Monthly Integral reactive power (export) ①(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18404+ 40*(MM-1)+1					
DT18406+ 40*(MM-1)	Monthly Integral reactive power (export) ②(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18406+ 40*(MM-1)+1					
DT18408+ 40*(MM-1)	Monthly Integral reactive power (export) ③(T3)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18408+ 40*(MM-1)+1					

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT18410+ 40*(MM-1)	Monthly total Integral reactive power (export) (T3)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT18410+ 40*(MM-1)+1					
DT18412+ 40*(MM-1)	Monthly Integral reactive power (export) ①(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18412+ 40*(MM-1)+1					
DT18414+ 40*(MM-1)	Monthly Integral reactive power (export) ②(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18414+ 40*(MM-1)+1					
DT18416+ 40*(MM-1)	Monthly Integral reactive power (export) ③(T4)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18416+ 40*(MM-1)+1					
DT18418+ 40*(MM-1)	Monthly total Integral reactive power (export) (T4)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT18418+ 40*(MM-1)+1					
DT18420+ 40*(MM-1)	Monthly Integral reactive power (export) ①(T)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18420+ 40*(MM-1)+1					
DT18422+ 40*(MM-1)	Monthly Integral reactive power (export) ②(T)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18422+ 40*(MM-1)+1					
DT18424+ 40*(MM-1)	Monthly Integral reactive power (export) ③(T)	0.001 kvarh	Unsigned 32bit	0 to 999999999	R
DT18424+ 40*(MM-1)+1					
DT18426+ 40*(MM-1)	Monthly total Integral reactive power (export) (T)	0.001 kvarh	Unsigned 32bit	0 to 2999999997	R
DT18426+ 40*(MM-1)+1					
DT19000+ 6*(n-1)	Power interruption n time date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19000+ 6*(n-1)+1	Power interruption n time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19000+ 6*(n-1)+2	Power interruption n time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT19000+ 6*(n-1)+3	Phase of power interruption n	—	Unsigned 16bit	1:Phase1,2:Phase2,3:Phase3	R
DT19000+ 6*(n-1)+4	Power interruption n period	1ms	Unsigned 32bit	0 to 999999999	R
DT19000+ 6*(n-1)+5					
DT19060+ 6*(n-1)	Under voltage n date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19060+ 6*(n-1)+1	Under voltage n time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19060+ 6*(n-1)+2	Under voltage n time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT19060+ 6*(n-1)+3	Phase of under voltage n	—	Unsigned 16bit	1:Phase1,2:Phase2,3:Phase3	R
DT19060+ 6*(n-1)+4	Under voltage n period	1ms	Unsigned 32bit	0 to 999999999	R
DT19060+ 6*(n-1)+5					

*MM means '1 to 12' for month, January to December.

*n shows '1 to 10'.

Data register	Name	Unit	Kind of data	Range	R/W
DT19120+ 6*(n-1)	Over voltage n date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19120+ 6*(n-1)+1	Over voltage n time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19120+ 6*(n-1)+2	Over voltage n time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT19120+ 6*(n-1)+3	Phase of over voltage n	—	Unsigned 16bit	1:Phase1,2:Phase2,3:Phase3	R
DT19120+ 6*(n-1)+4	Over voltage n period	1ms	Unsigned 32bit	0 to 999999999	R
DT19120+ 6*(n-1)+5					
DT19180+ 6*(n-1)	Over current n date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19180+ 6*(n-1)+1	Over current n time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19180+ 6*(n-1)+2	Over current n time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT19180+ 6*(n-1)+3	Phase of over current n	—	Unsigned 16bit	1:Phase1,2:Phase2,3:Phase3	R
DT19180+ 6*(n-1)+4	Over current n period	1ms	Unsigned 32bit	0 to 999999999	R
DT19180+ 6*(n-1)+5					
DT19240+ 6*(n-1)	Under current n date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19240+ 6*(n-1)+1	Under current n time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19240+ 6*(n-1)+2	Under current n time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT19240+ 6*(n-1)+3	Phase of under current n	—	Unsigned 16bit	1:Phase1,2:Phase2,3:Phase3	R
DT19240+ 6*(n-1)+4	Under current n period	1ms	Unsigned 32bit	0 to 999999999	R
DT19240+ 6*(n-1)+5					
DT19301+ 6*(n-1)	OUT1 Output log n Occurance date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19301+ 6*(n-1)+1	OUT1 Output log n Occurance time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19301+ 6*(n-1)+2	OUT1 Output log n Occurance time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT19361+ 6*(n-1)	OUT2 Output log n Occurance date	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT19361+ 6*(n-1)+1	OUT2 Output log n Occurance time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT19361+ 6*(n-1)+2	OUT2 Output log n Occurance time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT31000+ 75*(MM-1)	Monthly max. demand date current1(T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	R
DT31000+ 75*(MM-1)+1	Monthly max. demand time current1(T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	R
DT31000+ 75*(MM-1)+2	Monthly max. demand time current1(T1)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	R
DT31000+ 75*(MM-1)+3	Monthly max.demand current1(T1)	0.001A	Unsigned 32bit	0 to 999999999	R
DT31000+ 75*(MM-1)+4					

*n shows '1 to 10'.

Data register	Name	Unit	Kind of data	Range		R/W
DT31005+75*(MM-1)	Monthly max. demand date current2(T1)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31005+75*(MM-1)+1	Monthly max. demand time current2(T1)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31005+75*(MM-1)+2	Monthly max. demand time current2(T1)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31005+75*(MM-1)+3	Monthly max.demand current2(T1)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31005+75*(MM-1)+4						
DT31010+75*(MM-1)	Monthly max. demand date current3(T1)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31010+75*(MM-1)+1	Monthly max. demand time current3(T1)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31010+75*(MM-1)+2	Monthly max. demand time current3(T1)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31010+75*(MM-1)+3	Monthly max.demand current3(T1)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31010+75*(MM-1)+4						
DT31015+75*(MM-1)	Monthly max. demand date current1(T2)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31015+75*(MM-1)+1	Monthly max. demand time current1(T2)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31015+75*(MM-1)+2	Monthly max. demand time current1(T2)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31015+75*(MM-1)+3	Monthly max.demand current1(T2)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31015+75*(MM-1)+4						
DT31020+75*(MM-1)	Monthly max. demand date current2(T2)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31020+75*(MM-1)+1	Monthly max. demand time current2(T2)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31020+75*(MM-1)+2	Monthly max. demand time current2(T2)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31020+75*(MM-1)+3	Monthly max.demand current2(T2)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31020+75*(MM-1)+4						
DT31025+75*(MM-1)	Monthly max. demand date current3(T2)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31025+75*(MM-1)+1	Monthly max. demand Time current3(T2)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31025+75*(MM-1)+2	Monthly max. demand Time current3(T2)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
T31025+75*(MM-1)+3	Monthly max.demand current3(T2)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31025+75*(MM-1)+4						
DT31030+75*(MM-1)	Monthly max. demand date current1(T3)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31030+75*(MM-1)+1	Monthly max. demand time current1(T3)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31030+75*(MM-1)+2	Monthly max. demand time current1(T3)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31030+75*(MM-1)+3	Monthly max.demand current1(T3)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31030+75*(MM-1)+4						

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range		R/W
DT31035+75*(MM-1)	Monthly max. demand date current2(T3)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31035+75*(MM-1)+1	Monthly max. demand time current2(T3)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31035+75*(MM-1)+2	Monthly max. demand time current2(T3)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31035+75*(MM-1)+3	Monthly max.demand current2(T3)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31035+75*(MM-1)+4						
DT31040+75*(MM-1)	Monthly max. demand date current3 (T3)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31040+75*(MM-1)+1	Monthly max. demand time current3(T3)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31040+75*(MM-1)+2	Monthly max. demand time current3(T3)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31040+75*(MM-1)+3	Monthly max.demand current3(T3)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31040+75*(MM-1)+4						
DT31045+75*(MM-1)	Monthly max. demand date current1(T4)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31045+75*(MM-1)+1	Monthly max. demand time current1(T4)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31045+75*(MM-1)+2	Monthly max. demand time current1(T4)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31045+75*(MM-1)+3	Monthly max.demand current1(T4)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31045+75*(MM-1)+4						
DT31050+75*(MM-1)	Monthly max. demand date current2(T4)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31050+75*(MM-1)+1	Monthly max. demand time current2(T4)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31050+75*(MM-1)+2	Monthly max. demand time current2(T4)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31050+75*(MM-1)+3	Monthly max.demand current2(T4)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31050+75*(MM-1)+4						
DT31055+75*(MM-1)	Monthly max. demand date current3(T4)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31055+75*(MM-1)+1	Monthly max. demand time current3(T4)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31055+75*(MM-1)+2	Monthly max. demand time current3(T4)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31055+75*(MM-1)+3	Monthly max.demand current3(T4)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31055+75*(MM-1)+4						
DT31060+75*(MM-1)	Monthly max. demand date current1(T)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31060+75*(MM-1)+1	Monthly max. demand time current1(T)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31060+75*(MM-1)+2	Monthly max. demand time current1(T)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31060+75*(MM-1)+3	Monthly max.demand current1(T)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31060+75*(MM-1)+4						

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range		R/W
DT31065+75*(MM-1)	Monthly max. demand date current2(T)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31065+75*(MM-1)+1	Monthly max. demand time current2(T)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31065+75*(MM-1)+2	Monthly max. demand time current2(T)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31065+75*(MM-1)+3	Monthly max.demand current2(T)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31065+75*(MM-1)+4						
DT31070+75*(MM-1)	Monthly max. demand date current3(T)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31070+75*(MM-1)+1	Monthly max. demand time current3(T)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31070+75*(MM-1)+2	Monthly max. demand time current3(T)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31070+75*(MM-1)+3	Monthly max.demand current3(T)	0.001A	Unsigned 32bit	0 to 999999999		R
DT31070+75*(MM-1)+4						
DT31900	Max. demand date active power	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31901	Max. demand time active power	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31902	Max. demand time active power	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31903	Max. demand value active power	0.001kW	Unsigned 32bit	0 to 2999999997		R
DT31904						
DT31905	Max. demand date reactive power	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31906	Max. demand time reactive power	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31907	Max. demand time reactive power	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31908	Max. demand value reactive power	0.001kvar	Unsigned 32bit	0 to 2999999997		R
DT31909						
DT31910	Max. demand date apparent power	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31911	Max. demand time apparent power	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31912	Max. demand time apparent power	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31913	Max. demand value apparent power	0.001kVA	Unsigned 32bit	0 to 2999999997		R
DT31914						
DT31915	Max. demand date active power (export)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31916	Max. demand time active power (export)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31917	Max. demand time active power (export)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31918	Max. demand value active power (export)	0.001kW	Unsigned 32bit	0 to 2999999997		R
DT31919						
DT31920	Max. demand date reactive power (export)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	R
DT31921	Max. demand time reactive power (export)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	R
DT31922	Max. demand time reactive power (export)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	R
DT31923	Max. demand value reactive power (export)	0.001kvar	Unsigned 32bit	0 to 2999999997		R
DT31924						

*MM means '1 to 12' for month, January to December.

Data register	Name	Unit	Kind of data	Range	R/W
DT31925	Max. demand date current1	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT31926	Max. demand time current1	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT31927	Max. demand time current1	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT31928	Max. demand value current1	0.001A	Unsigned 32bit	0 to 999999999	R
DT31929					
DT31930	Max. demand date current2	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT31931	Max. demand time current2	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT31932	Max. demand time current2	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT31933	Max. demand value current2	0.001A	Unsigned 32bit	0 to 999999999	R
DT31934					
DT31935	Max. demand date current3	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	R
DT31936	Max. demand time current3	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	R
DT31937	Max. demand time current3	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	R
DT31938	Max. demand value current3	0.001A	Unsigned 32bit	0 to 999999999	R
DT31939					

* 'Range' is not the measurement range, it shows the data range.

Note1) R: Read W: Write

2) Data register except specified is 0.

3) If each setting value is wrote by communication, it memories to internal memory at the same time. Therefore, change setting frequently makes the internal memory's life short. Avoid to usage like this.

4) Write a data within the range when you write it.

1.3.3 Error Codes

◇Basic procedure errors

Error code	Error name	Explanation
40H	Bcc error	• A Bcc error occurred in the command data.
41H	Format error	• A command message was sent that does not fit the transmission format.
42H	No support error	• A command was sent that is not supported.
43H	Procedure error	• Delimiter with multiple frames was sent. • The response shall be multiple frames.

◇Application error

Error code	Error name	Explanation
60H	Parameter error	• The data code is not "D".
61H	Data error	• Word No. is specified without decimal.(0000F etc.) • The starting word No. is bigger than the ending word No. • Writing data has a code that is not hexadecimal.
62H	Registration error	• Too many registrations have been entered (more than 17). • "MD" command was sent when some registration has been exist. • "MG" command was sent when registration has not been entered.

◇Self-diagnostic error

Error code	Error name	Explanation
45H	Operation error	• At "WD" command, writing data is exceeded the range of data register.

1.3.4 Command

Eco-POWER METER has 5 kinds of commands.

Command name	Code	Explanation
Read data area	RD	Reads the contents of data area.
Write data to data area	WD	Writes data to a data area.
Register or Reset data monitored	MD	Registers the data to be monitored.
Monitoring start	MG	Monitors a registered data.
Read status	RT	Reads the specifications of Eco-POWER METER and error code if an error occurs.

◆[RD]: Read data area (Reads the contents of data area.)

◇Command

%	Destination $\times 10^1$ $\times 10^0$	#	R	D	D	Starting word No. 5 characters $\times 10^4$ $\times 10^3$ $\times 10^2$ $\times 10^1$ $\times 10^0$					Ending word No. 5 characters $\times 10^4$ $\times 10^3$ $\times 10^2$ $\times 10^1$ $\times 10^0$					Bcc $\times 16^1$ $\times 16^0$	CR
---	--	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--------------------------------------	----

◇Normal response (Read successful)

%	Source $\times 10^1$ $\times 10^0$	\$	R	D	First register contents 4 characters $\times 16^1$ $\times 16^0$ $\times 16^3$ $\times 16^2$				Last register contents 4 characters $\times 16^1$ $\times 16^0$ $\times 16^3$ $\times 16^2$				Bcc $\times 16^1$ $\times 16^0$	CR
					(lower word) (higher word)				(lower word) (higher word)					

◇Error response

%	Source $\times 10^1$ $\times 10^0$!	Error code $\times 16^1$ $\times 16^0$	Bcc $\times 16^1$ $\times 16^0$	CR	(Common to each command)
---	---	---	---	--------------------------------------	----	--------------------------

◆[WD]: Write data area (Writes data to a data area.)

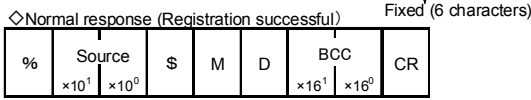
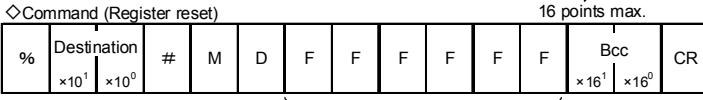
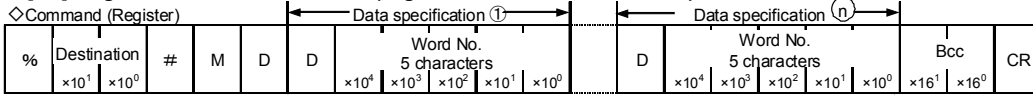
◇Command

%	Destination $\times 10^1$ $\times 10^0$	#	W	D	D	Starting word No. 5 characters $\times 10^4$ $\times 10^3$ $\times 10^2$ $\times 10^1$ $\times 10^0$					Ending word No. 5 characters $\times 10^4$ $\times 10^3$ $\times 10^2$ $\times 10^1$ $\times 10^0$					First writing data 4 characters $\times 16^1$ $\times 16^0$ $\times 16^3$ $\times 16^2$				⇒
											(lower word) (higher word)									

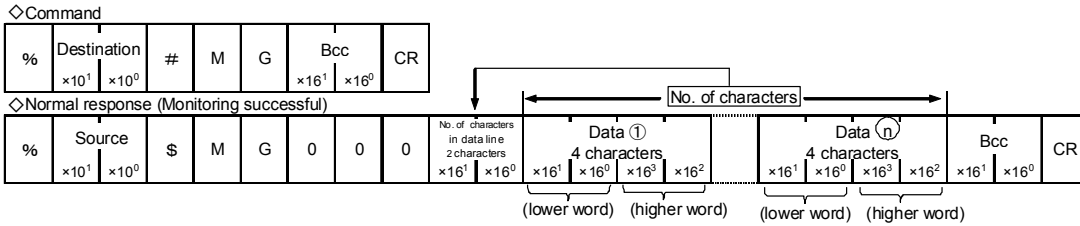
◇Normal response (Write successful)

%	Source $\times 10^1$ $\times 10^0$	\$	W	D	Bcc $\times 16^1$ $\times 16^0$	CR	⇒	Last writing data 4 characters $\times 16^1$ $\times 16^0$ $\times 16^3$ $\times 16^2$				Bcc $\times 16^1$ $\times 16^0$	CR
							(lower word) (higher word)						

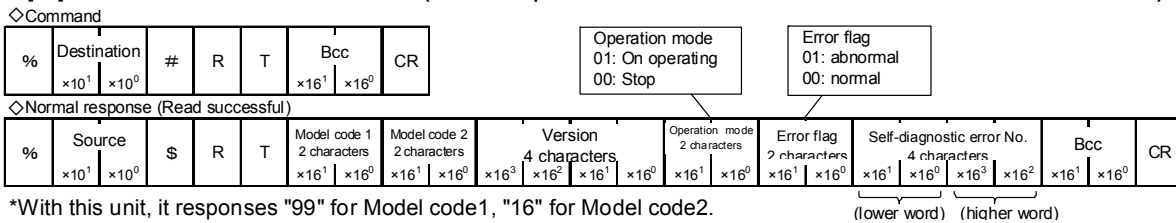
◆[MD]: Register or Reset data monitored (Registers the data to be monitored.) *Up to 16 points can be registered for one unit.



◆[MG]: Monitoring start (Monitors a registered data.)



◆[RT]: Read the status of Eco-POWER METER (Reads the specifications of Eco-POWER METER and error codes if an error occurs.)



*With this unit, it responds "99" for Model code1, "16" for Model code2.

Note) The maximum number of reading slaves is 26 (57 bytes), the maximum number of writing slaves is 23 (55 bytes).

1.4 MODBUS (RTU) Communication

1.4.1 Overview of MODBUS (RTU)

◆8-bit binary data in command is transmitted as it is.

Data format	Start bit	: 1 bit
	Data bit	: 8 bits (Fixed)
	Parity	: No parity, Even parity, Odd parity Selectable
	Stop bit	: 1-bit, 2-bit Selectable
	Error detection	: CRC-16 (Cyclic Redundancy Check)
	Data interval	: 3.5 character transmission time or less

◆Message configuration

RTU mode is configured to start after idle time processing of more than 3.5 character transmissions and end after idle time processing of more than 3.5 character transmissions.

3.5 idle characters	Slave address	Function code	Data	Error check CRC-16	3.5 idle characters
	8-bit	8-bit	xx bits	16-bit	

Master judges the transmission complete after no command for 4-characters idle time and process the command.

*Transmission speed and judgment time to complete transmission

Transmission speed (bps)	Judgment time to complete (ms)
38,400	about 1
19,200	about 2
9,600	about 4
4,800	about 8
2,400	about 16
1,200	About 32

◇Slave address:

Slave address is an individual instrument number on the slave side and is set within the range 1 to 247 (01H to F7H) for Modbus communication. Master identifies slaves by the slave address of the requested message.

Slave informs master which slave is responding to master by placing its own address in the response message. Slave address 0 (00H, broadcast address) can identify all slaves connected. However slaves do not respond.

◇Function code: Function code is command code for the slave to undertake the following action types.

Function code	Contents
03(03H)	DT Read
06(06H)	DT1 word write
16(10H)	DT several data write

Function code is used to discern whether the response is normal (acknowledgement) or if any error (negative acknowledgement) has occurred when slave returns response message to master.

When acknowledgement is returned, slave simply returns original function code. When negative acknowledgement is returned, MSB of original function code is set as 1 for response.

For example, when the master sends request message setting 00H to function code by mistake, slave returns 80H by setting MSB to 1, because the former is an illegal function.

For negative acknowledgement, the exception codes below are set to data of response message and returned to master in order to inform it of what kind of error has occurred.

Exception code	Contents
1(01H)	Illegal Function (Non-existent function)
3(03H)	Illegal data value (Value out of the device numbers)

note1) Even if it commands to write (06H.10H) to non-existent data address, slave response with acknowledgement. However, it doesn't write.

note2) Even if it commands to write the value out of the setting range, slave response with acknowledgement. However, it doesn't write.

note3) The maximum number of reading slaves is 26 (57-byte), the maximum number of writing slaves is 23 (55-byte).

◇Data: Data depends on the function code.

A request message from the master side is composed of data item, number of data and setting data.

A response message from the slave side is composed of number of bytes, data and exception code in negative acknowledgement.

◇Error check: 16-bit data to detect communication errors. Refer to the next.

◇Acknowledgement response

When command is to write 1 point, same message of command is responded.

When command is to write several points, part of command message (6-byte) is responded.

◆Error check

After calculating CRC-16 (Cyclic Redundancy Check) from slave address to the end of data, the calculated 16-bit data is appended to the end of message in sequence from low order to high order.

<How to calculate CRC>

In CRC system, the information is divided by the polynomial series. The remainder is added to the end of the information and transmitted. The generation of polynomial series is as follows.

(Generation of polynomial series: $X^{16} + X^{15} + X^2 + 1$)

- 1) Initialize the CRC-16 data (assumed as X) (FFFFH).
- 2) Calculate exclusive OR (XOR) with the 1st data and X. This is assumed as X.
- 3) Shift X one bit to the right. This is assumed as X.
- 4) When a carry is generated as a result of the shift, XOR is calculated by X of 3) and the fixed value (A001H). This is assumed as X. If a carry is not generated, go to step 5).
- 5) Repeat steps 3) and 4) until shifting 8 times.
- 6) XOR is calculated with the next data and X. This is assumed as X.
- 7) Repeat steps 3) to 5).
- 8) Repeat steps 3) to 5) up to the last data.
- 9) Set X as CRC-16 to the end of message in sequence from low order to high order.

◆Message example

<1> Reading conversion rate (P) (005DH) of address 1

•Command

3.5 idle characters	Slave address (01H)	Function code (03H)	Data item (005DH)	Number of data (0001H)	Error check CRC-16 (15D8H)	3.5 idle characters
	1	1	2	2	2	←character number

•Response message from slave in normal status (When Rate=1000(10.00) [03E8H])

3.5 idle characters	Slave address (01H)	Function code (03H)	Number of response byte (02H)	Number of data (03E8H)	Error check CRC-16 (B8FAH)	3.5 idle characters
	1	1	1	2	2	←character number

<2> Setting conversion rate (P) (005DH) of address 1 (When rate is set to 20.00(2000) [07D0H])

•Command

3.5 idle characters	Slave address (01H)	Function code (06H)	Data item (005DH)	Number of data (07D0H)	Error check CRC-16 (1BB4H)	3.5 idle characters
	1	1	2	2	2	←character number

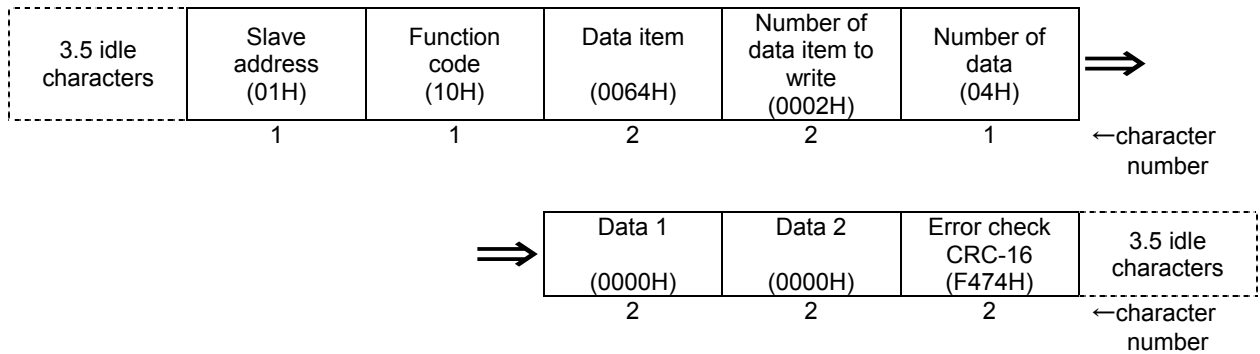
•Response message from slave in normal status

3.5 idle characters	Slave address (01H)	Function code (06H)	Data item (005DH)	Number of data (07D0H)	Error check CRC-16 (1BB4H)	3.5 idle characters
	1	1	2	2	2	←character number

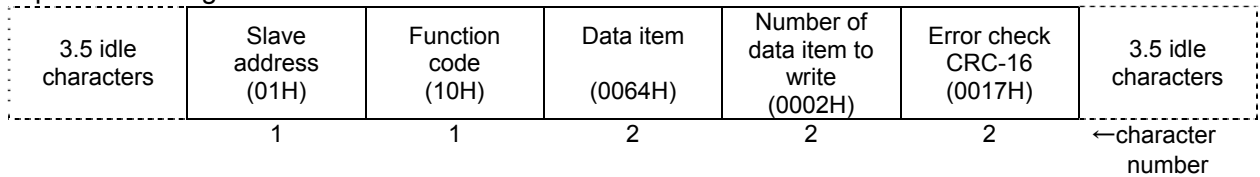
<3> Reset integral active power (0064H, 0065H: 2-word) of address 1

(When setting to 0 [0000, 0000H])

• Command



• Response message from slave in normal status



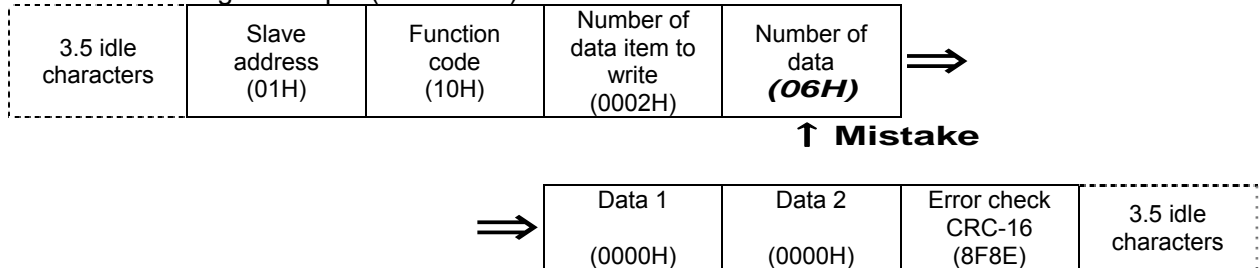
• A response message from the slave in exception (error) status

(When number of data has been mistaken.)

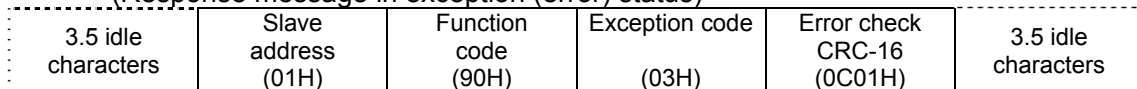
Function code MSB is set to 1 for the response message in exception (error) status (90H).

The exception code 03H (Value out of the device numbers) is returned as contents of error.

<Mistaken message example (Command)>



<Response message from slave to mistaken command
(Response message in exception (error) status)>



1.4.2 Data Register List (MODBUS communication)

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0002H	Over current (OFF threshold)	0.1%	Unsigned 16bit	1H to 4B0H	03H/ 06H/10H
0003H	Under voltage (OFF threshold)	0.1%	Unsigned 16bit	32H to 3E8H	03H/ 06H/10H
0004H	Over voltage (OFF threshold)	0.1%	Unsigned 16bit	3E8H to 4B0H	03H/ 06H/10H
0005H	Level output OUT1	—	Unsigned 16bit	0H:Pulse OFF, 1H:Pulse ON	03H/ 06H/10H
0006H	Level output OUT2	—	Unsigned 16bit	0H:Pulse OFF, 1H:Pulse ON	03H/ 06H/10H
0007H<LSB> 0008H<MSB>	Active power alarm (ON threshold) OUT1	0.1kW	Unsigned 32bit	0H to 1C9C37FH	03H/10H
0009H	Active power alarm target phase OUT1	—	Unsigned 16bit	0H:All, 1H:Phase1, 2H:Phase2, 3H:Phase3, 5H:total	03H/ 06H/10H
000AH<LSB> 000BH<MSB>	Active power alarm (ON threshold) OUT2	0.1kW	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
000CH	Active power alarm target phase OUT2	—	Unsigned 16bit	0H:All, 1H:Phase1, 2H:Phase2, 3H:Phase3, 5H:total	03H/ 06H/10H
000DH	Stand-by alarm (threshold) OUT1	0.1%	Unsigned 16bit	1H to 3E8H	03H/ 06H/10H
000EH	Stand-by alarm (start time) OUT1	1min	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
000FH	Stand-by alarm (phase) OUT1	—	Unsigned 16bit	0H:All, 1H:Phase1, 2H:Phase2, 3H:Phase3	03H/ 06H/10H
0010H	Stand-by alarm (threshold) OUT2	0.1%	Unsigned 16bit	1H to 3E8H	03H/ 06H/10H
0011H	Stand-by alarm (start time) OUT2	1min	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
0012H	Stand-by alarm (phase) OUT2	—	Unsigned 16bit	0H:All, 1H:Phase1, 2H:Phase2, 3H:Phase3	03H/ 06H/10H
0013H<LSB> 0014H<MSB>	Preset OUT1	0.001	Unsigned 32bit	0H to F423FH	03H/10H
0015H<LSB> 0016H<MSB>	Preset OUT2	0.001	Unsigned 32bit	0H to F423FH	03H/10H
0017H	Integral power output target phase OUT1	—	Unsigned 16bit	1H:Phase1, 2H:Phase2, 3H:Phase3, 5H:total	03H/ 06H/10H
0018H	Integral power output target phase OUT2	—	Unsigned 16bit	1H:Phase1, 2H:Phase2, 3H:Phase3, 5H:total	03H/ 06H/10H
0019H	Time program 1 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
001AH	Time program 1 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
001BH	Time program 2 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
001CH	Time program 2 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
001DH	Time program 3 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
001EH	Time program 3 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
001FH	Time program 4 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
0020H	Time program 4 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
0021H	Time program 5 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
0022H	Time program 5 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
0023H	Time program 6 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
0024H	Time program 6 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
0025H	Time program 7 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0026H	Time program 7 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
0027H	Time program 8 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
0028H	Time program 8 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
0029H	Time program 9 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
002AH	Time program 9 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
002BH	Time program 10 (time-zone)	—	Unsigned 16bit	0H:OFF, 1H:T1, 2H:T2, 3H:T3, 4H:T4	03H/ 06H/10H
002CH	Time program 10 (start-time)	—	Unsigned 16bit	Higher Lower hh:00H to 23H, min.:00H to 59H	03H/ 06H/10H
002DH	Calendar(min, ·ss)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H/ 06H/10H
002EH	Calendar(dd·hh)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H/ 06H/10H
002FH	Calendar(yy·mm)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H/ 06H/10H
0030H	Pulse input IN1	—	Unsigned 16bit	1H:30Hz, AH:Clock correction	03H/ 06H/10H
0031H	Pulse input IN2	—	Unsigned 16bit	1H:30Hz, 2H:2kHz	03H/ 06H/10H
0032H	RS485 Device number	—	Unsigned 16bit	Mewtocol: 1H to 64H Modbus: 1H to F7H DL/T645: 0H to 270FH	03H/ 06H/10H
0033H	RS485 Transmission speed	—	Unsigned 16bit	0H: 1200 1H: 2400 2H: 4800 3H: 9600 4H: 19200 5H: 38400	03H/ 06H/10H
0034H	RS485 Transmission format	—	Unsigned 16bit	0H: 8bit-o 1H: 8bit-n 2H: 8bit-E	03H/ 06H/10H
0035H	RS485 Stop bit	—	Unsigned 16bit	1H, 2H	03H/ 06H/10H
0036H	RS485 Response time	1ms	Unsigned 16bit	1H to 63H	03H/ 06H/10H
0037H	Phase/Wire	—	Unsigned 16bit	0H: 1P2W 1H: 1P3W 2H: 3P3W 3H: 3P4W	03H/ 06H/10H
0038H	CT type (2 nd)	Rated A (rms)	Unsigned 16bit	1H, 5H	03H/ 06H/10H
0039H	Primary side current of CT	1A	Unsigned 16bit	1H to FFFFH	03H/ 06H/10H
003AH	VT ratio	0.01	Unsigned 16bit	64H to EA60H	03H/ 06H/10H
003BH	Temperature correction value	0.1°C	Signed 16bit	FC18H to 3E8H	03H/ 06H/10H

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
003CH	Unit for pulse output OUT1	—	Unsigned 16bit	1H:0.0001kWh, 2H:0.001kWh, 3H:0.01kWh, 4H:0.1kWh, 5H:1kWh, 6H:10kWh, 7H:100kWh 64H:Stand-by alarm 65H:Under voltage alarm 66H:Over voltage alarm 67H:power interruption alarm 68H:Current alarm 69H:Active power alarm 6AH:Count output 1 6BH:Count output 2 6CH:Level output 6DH:PF alarm 6EH:current harmonics alarm 6FH:voltage harmonics alarm 70H:current THD alarm 71H:voltage THD alarm 72H:current unbalancing alarm 73H:voltage unbalancing alarm 74H:under current alarm 75H:reactive power alarm 76H:apparent power alarm 77H:over frequency alarm 78H:under frequency alarm 79H:power demand alarm 7AH:current demand alarm	03H/ 06H/10H
003DH	Unit for pulse output OUT2	—	Unsigned 16bit	1H:0.0001kWh, 2H:0.001kWh, 3H:0.01kWh, 4H:0.1kWh, 5H:1kWh, 6H:10kWh, 7H:100kWh 64H:Stand-by alarm 65H:Under voltage alarm 66H:Over voltage alarm 67H:power interruption alarm 68H:Current alarm 69H:Active power alarm 6AH:Count output 1 6BH:Count output 2 6CH:Level output 6DH:PF alarm 6EH:current harmonics alarm 6FH:voltage harmonics alarm 70H:current THD alarm 71H:voltage THD alarm 72H:current unbalancing alarm 73H:voltage unbalancing alarm 74H:under current alarm 75H:reactive power alarm 76H:apparent power alarm 77H:over frequency alarm 78H:under frequency alarm 79H:power demand alarm 7AH:current demand alarm	03H/ 06H/10H
003EH	Power interruption alarm target phase OUT1	—	Unsigned 16bit	0H:All, 1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
003FH	Power interruption alarm target phase OUT2	—	Unsigned 16bit	0H:All, 1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
0040H	Over current (ON threshold)	0.1%	Unsigned 16bit	1H to 4B0H	03H/ 06H/10H
0041H	Update cycle	100ms	Unsigned 16bit	1H to AH	03H/ 06H/10H
0042H<LSB>	Prescale IN1	0.001	Unsigned 32bit	1H to 186A0H	03H/ 06H/10H
0043H<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0044H<LSB> 0045H<MSB>	Prescale IN2	0.001	Unsigned 32bit	1H to 186A0H	03H/ 06H/10H
0046H	Auto-off	1min	Unsigned 16bit	0H to 63H (0H: always ON)	03H/ 06H/10H
0047H	Current alarm target phase OUT1	—	Unsigned 16bit	0H:All(except phaseN), 1H:Phase1, 2H:Phase2, 3H:Phase3, 4H:phaseN	03H/ 06H/10H
0048H	Current alarm target phase OUT2	—	Unsigned 16bit	0H:All(except phaseN), 1H:Phase1, 2H:Phase2, 3H:Phase3, 4H:phaseN	03H/ 06H/10H
0049H	Over voltage alarm target phase OUT1	—	Unsigned 16bit	0H:All, 1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
004AH	Over voltage alarm target phase OUT2	—	Unsigned 16bit	0H:All, 1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
004BH	Under voltage alarm target phase OUT1	—	Unsigned 16bit	0H:All, 1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
004CH	Under voltage alarm target phase OUT2	—	Unsigned 16bit	0H:All, 1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
004DH	Integral direction OUT1	—	Unsigned 16bit	0H:export 1H:Integral active power (export)	03H/ 06H/10H
004EH	Integral direction OUT2	—	Unsigned 16bit	0H:export 1H:Integral active power (export)	03H/ 06H/10H
004FH	Clock correction	—	Unsigned 16bit	hh:0H to 23H min.:0H to 59H	03H/ 06H/10H
0050H	Over voltage (ON threshold)	0.1%	Unsigned 16bit	3E8H to 4B0H	03H/ 06H/10H
0051H	Under voltage (ON threshold)	0.1%	Unsigned 16bit	32H to 3E8H	03H/ 06H/10H
0052H	Blinking during alarm output	—	Unsigned 16bit	0H: no blinking, 1H:blinking	03H/ 06H/10H
0053H	Conversion rate(-P) T1	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
0054H	Conversion rate(-P) T2	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
0055H	Conversion rate(-P) T3	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
0056H	Conversion rate(-P) T4	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
0057H	Conversion rate (-P)	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
0058H	Rated voltage	1V	Unsigned 16bit	64H to 1F4H	03H/ 06H/10H
0059H	Conversion rate(P) T1	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
005AH	Conversion rate(P) T2	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
005BH	Conversion rate(P) T3	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
005CH	Conversion rate(P) T4	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
005DH	Conversion rate (P)	0.01	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
005EH	Password	—	Unsigned 16bit	0H to 270FH	03H/ 06H/10H
005FH	Auto display start	1min	Unsigned 16bit	0H to 63H (0H: fix display item)	03H/ 06H/10H
0060H	Display cycle	1sec	Unsigned 16bit	1H to 63H	03H/ 06H/10H
0061H	Luminance	—	Unsigned 16bit	1H to 5H	03H/ 06H/10H
0062H	Protocol	—	Unsigned 16bit	0H: MEWTOCOL, 1H: MODBUS, 2H: DL/T645	03H/ 06H/10H

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
7530H<LSB>	Active power alarm (OFF threshold) OUT1	0.1kW	Unsigned 32bit	0H to 1C9C37FH	03H/
7531H<MSB>					06H/10H
7532H<LSB>	Active power alarm (OFF threshold) OUT2	0.1kW	Unsigned 32bit	0H to 1C9C37FH	03H/
7533H<MSB>					06H/10H
7534H	PF alarm(ON threshold) OUT1	0.001	Unsigned 16bit	0H to 3E8H	03H/ 06H/10H
7535H	PF alarm (OFF threshold)OUT1	0.001	Unsigned 16bit	0H to 3E8H	03H/ 06H/10H
7536H	PF alarm(phase) OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7537H	PF alarm(ON threshold) OUT2	0.001	Unsigned 16bit	0H to 3E8 H	03H/ 06H/10H
7538H	PF alarm (OFF threshold)OUT2	0.001	Unsigned 16bit	0H to 3E8 H	03H/ 06H/10H
7539H	PF alarm(phase) OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
753AH	Current harmonics alarm(ON threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
753BH	Current harmonics alarm(OFF threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
753CH	Current harmonics alarm(phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
753DH	Current harmonics alarm(ON threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
753EH	Current harmonics alarm(OFF threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
753FH	Current harmonics alarm(phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7540H	Voltage harmonics alarm(ON threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7541H	Voltage harmonics alarm(OFF threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7542H	Voltage harmonics alarm(phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
7543H	Voltage harmonics alarm(ON threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7544H	Voltage harmonics alarm(OFF threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7545H	Voltage harmonics alarm(phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
7546H	Current THD alarm (ON threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7547H	Current THD alarm (OFF threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7548H	Current THD alarm (phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7549H	Current THD alarm (ON threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
754AH	Current THD alarm (OFF threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
754BH	Current THD alarm (phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
754CH	Voltage THD alarm (ON threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
754DH	Voltage THD alarm (OFF threshold) OUT1	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
754EH	Voltage THD alarm (phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
754FH	Voltage THD alarm (ON threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7550H	Voltage THD alarm (OFF threshold) OUT2	0.01%	Unsigned 16bit	0H to 9C40H	03H/ 06H/10H
7551H	Voltage THD alarm (phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1(line1-2), 2H:Phase2(line2-3), 3H:Phase3(line3-1)	03H/ 06H/10H
7552H <LSB>	Current unbalancing alarm(ON threshold) OUT1	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
7553H <MSB>					
7554H <LSB>	Current unbalancing alarm(OFF threshold) OUT1	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
7555H <MSB>					
7556H <LSB>	Current unbalancing alarm(ON threshold) OUT2	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
7557H <MSB>					
7558H <LSB>	Current unbalancing alarm(OFF threshold) OUT2	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
7559H <MSB>					
755AH <LSB>	Voltage unbalancing alarm(ON threshold) OUT1	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
755BH <MSB>					
755CH <LSB>	Voltage unbalancing alarm(OFF threshold) OUT1	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
755DH <MSB>					
755EH <LSB>	Voltage unbalancing alarm(ON threshold) OUT2	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
755FH <MSB>					
7560H <LSB>	Voltage unbalancing alarm(OFF threshold) OUT2	0.01%	Unsigned 32bit	0H to 1869FH	03H/ 06H/10H
7561H <MSB>					
7562H	Under current alarm (phase) OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7563H	Under current alarm (phase) OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7564H	Over frequency alarm (ON threshold) OUT1	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
7565H	Over frequency alarm (OFF threshold)OUT1	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
7566H	Over frequency alarm (phase) OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7567H	Over frequency alarm (ON threshold) OUT2	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
7568H	Over frequency alarm (OFF threshold) OUT2	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
7569H	Over frequency alarm (phase) OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
756AH	Under frequency alarm (ON threshold) OUT1	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
756BH	Under frequency alarm (OFF threshold) OUT1	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
756CH	Under frequency alarm (phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
756DH	Under frequency alarm (ON threshold) OUT2	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
756EH	Under frequency alarm (OFF threshold) OUT2	0.01Hz	Unsigned 16bit	0H to 2710 H	03H/ 06H/10H
756FH	Under frequency alarm (phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7570H <LSB>	Reactive power alarm (ON threshold) OUT1	0.1kvar	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
7571H <MSB>					
7572H <LSB>	Reactive power alarm (OFF threshold) OUT1	0.1kvar	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
7573H <MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
7574H	Reactive power alarm (phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3,5H:total	03H/ 06H/10H
7575H <LSB> 7576H <MSB>	Reactive power alarm (ON threshold) OUT2	0.1kvar	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
7577H <LSB> 7578H <MSB>	Reactive power alarm (OFF threshold) OUT2	0.1kvar	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
7579H	Reactive power alarm (phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3,5H:total	03H/ 06H/10H
757AH <LSB> 757BH <MSB>	Apparent power alarm (ON threshold) OUT1	0.1kVA	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
757CH <LSB> 757DH <MSB>	Apparent power alarm (OFF threshold) OUT1	0.1kVA	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
757EH	Apparent power alarm (phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3,5H:total	03H/ 06H/10H
757FH <LSB> 7580H <MSB>	Apparent power alarm (ON threshold) OUT2	0.1kVA	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
7581H <LSB> 7582H <MSB>	Apparent power alarm2 (OFF threshold) OUT2	0.1kVA	Unsigned 32bit	0H to 1C9C37FH	03H/ 06H/10H
7583H	Apparent power alarm (phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3,5H:total	03H/ 06H/10H
7584H	Power demand alarm (power type) OUT1	—	Unsigned 16bit	0H:active power, 1H:reactive power, 2H:apparent power, 3H:active power (export) , 4H:reactive power (export)	03H/ 06H/10H
7585H <LSB> 7586H <MSB>	Power demand alarm (ON threshold) OUT1	0.001 kW /kvar/kVA	Unsigned 32bit	0H to 5F5E0FFH	03H/ 06H/10H
7587H <LSB> 7588H <MSB>	Power demand alarm (OFF threshold)OUT1	0.001 kW /kvar/kVA	Unsigned 32bit	0H to 5F5E0FFH	03H/ 06H/10H
7589H <LSB> 758AH <MSB>	Power demand alarm (target)OUT1	0.001 kW /kvar/kVA	Unsigned 32bit	0H to 5F5E0FFH	03H/ 06H/10H
758BH	Power demand alarm (hysteresis) OUT1	1%	Unsigned 16bit	0H to 64H	03H/ 06H/10H
758CH	Power demand alarm start-time OUT1	1min,	Unsigned 16bit	0H to 1EH	03H/ 06H/10H
758DH	Power demand alarm (power type) OUT2	—	Unsigned 16bit	0H:active power, 1H:reactive power, 2H:apparent power, 3H:active power (export) , 4H:reactive power (export)	03H/ 06H/10H
758EH <LSB> 758FH <MSB>	Power demand alarm (ON threshold) OUT2	0.001 kW /kvar/kVA	Unsigned 32bit	0H to 5F5E0FFH	03H/ 06H/10H
7590H <LSB> 7591H <MSB>	Power demand alarm (OFF threshold) OUT2	0.001 kW /kvar/kVA	Unsigned 32bit	0H to 5F5E0FFH	03H/ 06H/10H
7592H <LSB> 7593H <MSB>	Power demand alarm (target) OUT2	0.001 kW /kvar/kVA	Unsigned 32bit	0H to 5F5E0FFH	03H/ 06H/10H
7594H	Power demand alarm (hysteresis) OUT2	1%	Unsigned 16bit	0H to 64H	03H/ 06H/10H
7595H	Power demand alarm start-timeOUT2	1min,	Unsigned 16bit	0H to 1EH	03H/ 06H/10H
7596H	Current demand alarm (ON threshold) OUT1	0.1%	Unsigned 16bit	0H to 4B0H	03H/ 06H/10H
7597H	Current demand alarm (OFF threshold) OUT1	0.1%	Unsigned 16bit	0H to 4B0H	03H/ 06H/10H
7598H	Current demand alarm (phase)OUT1	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
7599H	Current demand alarm (ON threshold) OUT2	0.1%	Unsigned 16bit	0H to 4B0H	03H/ 06H/10H
759AH	Current demand alarm (OFF threshold) OUT2	0.1%	Unsigned 16bit	0H to 4B0H	03H/ 06H/10H
759BH	Current demand alarm (phase)OUT2	—	Unsigned 16bit	0H:All,1H:Phase1, 2H:Phase2,3H:Phase3	03H/ 06H/10H
759CH	Power demand type	—	Unsigned 16bit	0H:peak demand, 1H:sliding block, 2H:fixed block, 3H:30-min demand	03H/ 06H/10H

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
759DH	Power demand interval1	1min,	Unsigned 16bit	0H to 3CH	03H/ 06H/10H
759EH	Power demand interval2	1min,	Unsigned 16bit	0H to 3CH	03H/ 06H/10H
759FH	Current demand interval	1min,	Unsigned 16bit	0H to 3CH	03H/ 06H/10H
75A0H	30-min demand calculation method	—	Unsigned 16bit	0H:addition, 1H:average	03H/ 06H/10H
75A1H	Power input type	—	Unsigned 16bit	0H:CT input, 1H:pulse input	03H/ 06H/10H
75A2H	Pulse type	—	Unsigned 16bit	0H:kWh, 1H:Pulse	03H/ 06H/10H
75A3H <LSB>	Pulse rate (convert to electric power)	0.001 kWh	Unsigned 32bit	0H to 186A0H	03H/ 06H/10H
75A4H <MSB>			Unsigned 16bit		
75A5H	Pulse constant value	pulse/kWh	Unsigned 16bit	0H:50000, 1H:2000	03H/ 06H/10H
75A6H	Under current (ON threshold)	0.1%	Unsigned 16bit	0H to 3E8H	03H/ 06H/10H
75A7H	Under current (OFF threshold)	0.1%	Unsigned 16bit	0H to 3E8H	03H/ 06H/10H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0064H <LSB> 0065H <MSB>	Integral active power (1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0066H <LSB> 0067H <MSB>	Integral active power (2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0068H <LSB> 0069H <MSB>	Integral active power (3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
006AH <LSB> 006BH <MSB>	Total integral active power	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
006CH <LSB> 006DH <MSB>	Integral reactive power (1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
006EH <LSB> 006FH <MSB>	Integral reactive power (2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0070H <LSB> 0071H <MSB>	Integral reactive power (3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0072H <LSB> 0073H <MSB>	Total integral reactive power	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0074H <LSB> 0075H <MSB>	Integral apparent power (1)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0076H <LSB> 0077H <MSB>	Integral apparent power (2)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0078H <LSB> 0079H <MSB>	Integral apparent power (3)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
007AH <LSB> 007BH <MSB>	Total integral apparent power	0.01kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
007CH <LSB> 007DH <MSB>	Integral export active power (1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
007EH <LSB> 007FH <MSB>	Integral export active power (2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0080H <LSB> 0081H <MSB>	Integral export active power (3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0082H <LSB> 0083H <MSB>	Total integral export active power	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0084H <LSB> 0085H <MSB>	Integral export reactive power (1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0086H <LSB> 0087H <MSB>	Integral export reactive power (2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0088H <LSB> 0089H <MSB>	Integral export reactive power (3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
008AH <LSB> 008BH <MSB>	Total integral export reactive power	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
008CH <LSB> 008DH <MSB>	Instantaneous active power (1)	0.01kW	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
008EH <LSB> 008FH <MSB>	Instantaneous active power (2)	0.01kW	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
0090H <LSB> 0091H <MSB>	Instantaneous active power (3)	0.01kW	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
0092H <LSB> 0093H <MSB>	Total instantaneous active power	0.01kW	Signed 32bit	EE1E5D03H to 11E1A2FDH	03H
0094H <LSB> 0095H <MSB>	Instantaneous reactive power (1)	0.01kvar	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
0096H <LSB> 0097H <MSB>	Instantaneous reactive power (2)	0.01kvar	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
0098H <LSB> 0099H <MSB>	Instantaneous reactive power (3)	0.01kvar	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
009AH <LSB> 009BH <MSB>	Total instantaneous reactive power	0.01kvar	Signed 32bit	EE1E5D03H to 11E1A2FDH	03H
009CH <LSB> 009DH <MSB>	Instantaneous apparent power (1)	0.01kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
009EH <LSB> 009FH <MSB>	Instantaneous apparent power (2)	0.01kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
00A0H <LSB> 00A1H <MSB>	Instantaneous apparent power (3)	0.01kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
00A2H <LSB> 00A3H <MSB>	Total instantaneous apparent power	0.01kVA	Unsigned 32bit	0H to 11E1A2FDH	03H
00A4H <LSB> 00A5H <MSB>	Voltage 1	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00A6H <LSB> 00A7H <MSB>	Voltage 2	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00A8H <LSB> 00A9H <MSB>	Voltage 3	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00AAH <LSB> 00ABH <MSB>	Voltage average	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00ACH <LSB> 00ADH <MSB>	Line voltage 1-2	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00AEH <LSB> 00AFH <MSB>	Line voltage 2-3	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00B0H <LSB> 00B1H <MSB>	Line voltage 3-1	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00B2H <LSB> 00B3H <MSB>	Line voltage average	0.1V	Unsigned 32bit	0H to 3B9AC9FFH	03H
00B4H <LSB> 00B5H <MSB>	Current (1)	0.01A	Unsigned 32bit	0H to 3B9AC9FFH	03H
00B6H <LSB> 00B7H <MSB>	Current (2)	0.01A	Unsigned 32bit	0H to 3B9AC9FFH	03H
00B8H <LSB> 00B9H <MSB>	Current (3)	0.01A	Unsigned 32bit	0H to 3B9AC9FFH	03H
00BAH <LSB> 00BBH <MSB>	Current phaseN	0.01A	Unsigned 32bit	0H to 3B9AC9FFH	03H
00BCH <LSB> 00BDH <MSB>	Current average	0.01A	Unsigned 32bit	0H to 3B9AC9FFH	03H
00BEH	Frequency (1)	0.1Hz	Unsigned 16bit	0H to 3E7H	03H
00BFH	Frequency (2)	0.1Hz	Unsigned 16bit	0H to 3E7H	03H
00C0H	Frequency (3)	0.1Hz	Unsigned 16bit	0H to 3E7H	03H
00C1H	Frequency average	0.1Hz	Unsigned 16bit	0H to 3E7H	03H
00C2H	PF (1)	0.001	Signed 16bit	FC18H to 3E8H	03H
00C3H	PF (2)	0.001	Signed 16bit	FC18H to 3E8H	03H
00C4H	PF (3)	0.001	Signed 16bit	FC18H to 3E8H	03H
00C5H	PF average	0.001	Signed 16bit	FC18H to 3E8H	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
00C6H <LSB> 00C7H <MSB>	Integral active power (1)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00C8H <LSB> 00C9H <MSB>	Integral active power (2)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00CAH <LSB> 00CBH <MSB>	Integral active power (3)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00CCH <LSB> 00CDH <MSB>	Total integral active power	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
00CEH <LSB> 00CFH <MSB>	Integral reactive power (1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00D0H <LSB> 00D1H <MSB>	Integral reactive power (2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00D2H <LSB> 00D3H <MSB>	Integral reactive power (3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00D4H <LSB> 00D5H <MSB>	Total integral reactive power	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
00D6H <LSB> 00D7H <MSB>	Integral apparent power (1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00D8H <LSB> 00D9H <MSB>	Integral apparent power (2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00DAH <LSB> 00DBH <MSB>	Integral apparent power (3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00DCH <LSB> 00DDH <MSB>	Total integral apparent power	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
00DEH <LSB> 00DFH <MSB>	Integral export active power (1)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00E0H <LSB> 00E1H <MSB>	Integral export active power (2)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00E2H <LSB> 00E3H <MSB>	Integral export active power (3)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00E4H <LSB> 00E5H <MSB>	Total integral export active power	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
00E6H <LSB> 00E7H <MSB>	Integral export reactive power (1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00E8H <LSB> 00E9H <MSB>	Integral export reactive power (2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00EAH <LSB> 00EBH <MSB>	Integral export reactive power (3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
00ECH <LSB> 00EDH <MSB>	Total integral export reactive power	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
00EEH <LSB> 00EFH <MSB>	Instantaneous active power (1)	0.001 kW	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
00F0H <LSB> 00F1H <MSB>	Instantaneous active power (2)	0.001 kW	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
00F2H <LSB> 00F3H <MSB>	Instantaneous active power (3)	0.001 kW	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
00F4H <LSB> 00F5H <MSB>	Total instantaneous active power	0.001 kW	Signed 32bit	EE1E5D03H to 11E1A2FDH	03H
00F6H <LSB> 00F7H <MSB>	Instantaneous reactive power (1)	0.001 kvar	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
00F8H <LSB> 00F9H <MSB>	Instantaneous reactive power (2)	0.001 kvar	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
00FAH <LSB> 00FBH <MSB>	Instantaneous reactive power (3)	0.001 kvar	Signed 32bit	FA0A1F01H to 5F5E0FFH	03H
00FCH <LSB> 00FDH <MSB>	Total instantaneous reactive power	0.001 kvar	Signed 32bit	EE1E5D03H to 11E1A2FDH	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
00FEH <LSB> 00FFH <MSB>	Instantaneous apparent power (1)	0.001 kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
0100H <LSB> 0101H <MSB>	Instantaneous apparent power (2)	0.001 kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
0102H <LSB> 0103H <MSB>	Instantaneous apparent power (3)	0.001 kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
0104H <LSB> 0105H <MSB>	Total instantaneous apparent power	0.001 kVA	Unsigned 32bit	0H to 11E1A2FDH	03H
0106H <LSB> 0107H <MSB>	Voltage 1	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
0108H <LSB> 0109H <MSB>	Voltage 2	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
010AH <LSB> 010BH <MSB>	Voltage 3	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
010CH <LSB> 010DH <MSB>	Voltage average	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
010EH <LSB> 010FH <MSB>	Line voltage 1-2	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
0110H <LSB> 0111H <MSB>	Line voltage 2-3	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
0112H <LSB> 0113H <MSB>	Line voltage 3-1	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
0114H <LSB> 0115H <MSB>	Line voltage average	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
0116H <LSB> 0117H <MSB>	Current (1)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
0118H <LSB> 0119H <MSB>	Current (2)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
011AH <LSB> 011BH <MSB>	Current (3)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
011CH <LSB> 011DH <MSB>	Current phase N	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
011EH <LSB> 011FH <MSB>	Current average	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
0120H	Frequency (1)	0.01Hz	Unsigned 16bit	0H to 2710H	03H
0121H	Frequency (2)	0.01Hz	Unsigned 16bit	0H to 2710H	03H
0122H	Frequency (3)	0.01Hz	Unsigned 16bit	0H to 2710H	03H
0123H	Frequency average	0.01Hz	Unsigned 16bit	0H to 2710H	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0124H<LSB>	Pulse input value IN1	—	Unsigned 32bit	0H to F423FH	03H/10H
0125H<MSB>					
0126H<LSB>	Pulse input value IN2	—	Unsigned 32bit	0H to F423FH	03H/10H
0127H<MSB>					
0128H	Pulse inputIN1status	—	Unsigned 16bit	0H:OFF, 1H:ON	03H
0129H	Pulse inputIN2status	—	Unsigned 16bit	0H:OFF, 1H:ON	03H
012AH	Pulse outputOUT1status	—	Unsigned 16bit	0H:OFF, 1H:ON	03H
012BH	Pulse outputOUT2status	—	Unsigned 16bit	0H:OFF, 1H:ON	03H
012CH<LSB>	Integral active power (pulse conversion value)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
012DH<MSB>					
012EH<LSB>	Estimated demand	0.001kW	Unsigned 32bit	0H to 5F5E0FFH	03H
012FH<MSB>					
0130H	Demand remaining time	1min,	Unsigned 16bit	0H to 1EH	03H
0131H<LSB>	Present demand (active power)	0.001kW	Unsigned 32bit	0H to 5F5E0FFH	03H
0132H<MSB>					
0133H<LSB>	Present demand (reactive power)	0.001kvar	Unsigned 32bit	0H to 5F5E0FFH	03H
0134H<MSB>					
0135H<LSB>	Present demand (apparent power)	0.001kVA	Unsigned 32bit	0H to 5F5E0FFH	03H
0136H<MSB>					
0137H<LSB>	Present demand (active power (export))	0.001kW	Unsigned 32bit	0H to 5F5E0FFH	03H
0138H<MSB>					
0139H<LSB>	Present demand (reactive power (export))	0.001kvar	Unsigned 32bit	0H to 5F5E0FFH	03H
013AH<MSB>					
013BH<LSB>	Present demand (current①)	0.001A	Unsigned 32bit	0H to 5F5E0FFH	03H
013CH<MSB>					
013DH<LSB>	Present demand (current②)	0.001A	Unsigned 32bit	0H to 5F5E0FFH	03H
013EH<MSB>					
013FH<LSB>	Present demand (current③)	0.001A	Unsigned 32bit	0H to 5F5E0FFH	03H
0140H<MSB>					
0144H	PF status	-	Unsigned 16bit	0H: even, 1H: Lag, 2H: Lead	03H
01A2H	Temperature	0.1°C	Signed 16bit	FC18H to 3E8H	03H
01F4H<LSB>	Integral active power①(T1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
01F5H<MSB>					
01F6H<LSB>	Integral active power②(T1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
01F7H<MSB>					
01F8H<LSB>	Integral active power③(T1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
01F9H<MSB>					
01FAH<LSB>	Total integral active power(T1)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
01FBH<MSB>					
01FCH<LSB>	Integral active power①(T2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
01FDH<MSB>					
01FEH<LSB>	Integral active power②(T2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
01FFH<MSB>					
0200H<LSB>	Integral active power③(T2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0201H<MSB>					
0202H<LSB>	Total integral active power(T2)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0203H<MSB>					
0204H<LSB>	Integral active power①(T3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0205H<MSB>					
0206H<LSB>	Integral active power②(T3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0207H<MSB>					
0208H<LSB>	Integral active power③(T3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0209H<MSB>					
020AH<LSB>	Total integral active power(T3)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
020BH<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
020CH<LSB>	Integral active power①(T4)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
020DH<MSB>					
020EH<LSB>	Integral active power②(T4)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
020FH<MSB>					
0210H<LSB>	Integral active power③(T4)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0211H<MSB>					
0212H<LSB>	Total integral active power(T4)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0213H<MSB>					
0214H<LSB>	Integral reactive power①(T1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0215H<MSB>					
0216H<LSB>	Integral reactive power②(T1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0217H<MSB>					
0218H<LSB>	Integral reactive power③(T1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0219H<MSB>					
021AH<LSB>	Total integral reactive power(T1)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
021BH<MSB>					
021CH<LSB>	Integral reactive power①(T2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
021DH<MSB>					
021EH<LSB>	Integral reactive power②(T2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
021FH<MSB>					
0220H<LSB>	Integral reactive power③(T2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0221H<MSB>					
0222H<LSB>	Total integral reactive power(T2)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0223H<MSB>					
0224H<LSB>	Integral reactive power①(T3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0225H<MSB>					
0226H<LSB>	Integral reactive power②(T3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0227H<MSB>					
0228H<LSB>	Integral reactive power③(T3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0229H<MSB>					
022AH<LSB>	Total integral reactive power(T3)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
022BH<MSB>					
022CH<LSB>	Integral reactive power①(T4)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
022DH<MSB>					
022EH<LSB>	Integral reactive power②(T4)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
022FH<MSB>					
0230H<LSB>	Integral reactive power③(T4)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0231H<MSB>					
0232H<LSB>	Total integral reactive power(T4)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0233H<MSB>					
0234H<LSB>	Integral apparent power①(T1)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0235H<MSB>					
0236H<LSB>	Integral apparent power②(T1)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0237H<MSB>					
0238H<LSB>	Integral apparent power③(T1)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0239H<MSB>					
023AH<LSB>	Total integral apparent power(T1)	0.01kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
023BH<MSB>					
023CH<LSB>	Integral apparent power①(T2)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
023DH<MSB>					
023EH<LSB>	Integral apparent power②(T2)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
023FH<MSB>					
0240H<LSB>	Integral apparent power③(T2)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0241H<MSB>					
0242H<LSB>	Total integral apparent power(T2)	0.01kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
0243H<MSB>					
0244H<LSB>	Integral apparent power①(T3)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0245H<MSB>					
0246H<LSB>	Integral apparent power②(T3)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0247H<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0248H<LSB>	Integral apparent power③(T3)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0249H<MSB>					
024AH<LSB>	Total integral apparent power(T3)	0.01kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
024BH<MSB>					
024CH<LSB>	Integral apparent power①(T4)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
024DH<MSB>					
024EH<LSB>	Integral apparent power②(T4)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
024FH<MSB>					
0250H<LSB>	Integral apparent power③(T4)	0.01kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0251H<MSB>					
0252H<LSB>	Total integral apparent power(T4)	0.01kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
0253H<MSB>					
0254H<LSB>	Integral active power (export) ① (T1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0255H<MSB>					
0256H<LSB>	Integral active power (export) ② (T1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0257H<MSB>					
0258H<LSB>	Integral active power (export) ③ (T1)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0259H<MSB>					
025AH<LSB>	Total integral active power (export) (T1)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
025BH<MSB>					
025CH<LSB>	Integral active power (export) ① (T2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
025DH<MSB>					
025EH<LSB>	Integral active power (export) ② (T2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
025FH<MSB>					
0260H<LSB>	Integral active power (export) ③ (T2)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0261H<MSB>					
0262H<LSB>	Total integral active power (export) (T2)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0263H<MSB>					
0264H<LSB>	Integral active power (export) ① (T3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0265H<MSB>					
0266H<LSB>	Integral active power (export) ② (T3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0267H<MSB>					
0268H<LSB>	Integral active power (export) ③ (T3)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0269H<MSB>					
026AH<LSB>	Total integral active power (export) (T3)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
026BH<MSB>					
026CH<LSB>	Integral active power (export) ① (T4)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
026DH<MSB>					
026EH<LSB>	Integral active power (export) ② (T4)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
026FH<MSB>					
0270H<LSB>	Integral active power (export) ③ (T4)	0.01kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0271H<MSB>					
0272H<LSB>	Total integral active power (export) (T4)	0.01kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0273H<MSB>					
0274H<LSB>	Integral reactive power (export) ① (T1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0275H<MSB>					
0276H<LSB>	Integral reactive power (export) ② (T1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0277H<MSB>					
0278H<LSB>	Integral reactive power (export) ③ (T1)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0279H<MSB>					
027AH<LSB>	Total integral reactive power (export) (T1)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
027BH<MSB>					
027CH<LSB>	Integral reactive power (export) ① (T2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
027DH<MSB>					
027EH<LSB>	Integral reactive power (export) ② (T2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
027FH<MSB>					
0280H<LSB>	Integral reactive power (export) ③ (T2)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0281H<MSB>					
0282H<LSB>	Total integral reactive power (export) (T2)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0283H<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0284H<LSB>	Integral reactive power (export) ①(T3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0285H<MSB>					
0286H<LSB>	Integral reactive power (export) ②(T3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0287H<MSB>					
0288H<LSB>	Integral reactive power (export) ③(T3)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0289H<MSB>					
028AH<LSB>	Total Integral reactive power (export) (T3)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
028BH<MSB>					
028CH<LSB>	Integral reactive power (export) ①(T4)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
028DH<MSB>					
028EH<LSB>	Integral reactive power (export) ②(T4)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
028FH<MSB>					
0290H<LSB>	Integral reactive power (export) ③(T4)	0.01kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0291H<MSB>					
0292H<LSB>	Total Integral reactive power (export) (T4)	0.01kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0293H<MSB>					
0294H<LSB>	Voltage unbalancing	0.001%	Unsigned 32bit	0H to F423FH	03H
0295H<MSB>					
0296H<LSB>	Current unbalancing	0.001%	Unsigned 32bit	0H to F423FH	03H
0297H<MSB>					
0298H<LSB>	Phase voltage THD①	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
0299H<MSB>					
029AH<LSB>	Phase voltage THD②	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
029BH<MSB>					
029CH<LSB>	Phase voltage THD③	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
029DH<MSB>					
029EH<LSB>	Phase voltage THD average	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
029FH<MSB>					
02A0H<LSB>	Line voltage THD 1-2	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02A1H<MSB>					
02A2H<LSB>	Line voltage THD 2-3	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02A3H<MSB>					
02A4H<LSB>	Line voltage THD 3-1	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02A5H<MSB>					
02A6H<LSB>	Line voltage THD average	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02A7H<MSB>					
02A8H<LSB>	Current THD①	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02A9H<MSB>					
02AAH<LSB>	Current THD②	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02ABH<MSB>					
02ACH<LSB>	Current THD③	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02ADH<MSB>					
02AEH<LSB>	Current THD average	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02AFH<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
02B0H +8*(n-2) <LSB>	Phase voltage n-order harmonics ①	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02B0H +8*(n-2) + 1 <MSB>					
02B0H +8*(n-2) + 2 <LSB>	Phase voltage n-order harmonics ②	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02B0H +8*(n-2) + 3 <MSB>					
02B0H +8*(n-2) + 4 <LSB>	Phase voltage n-order harmonics ③	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02B0H +8*(n-2) + 5 <MSB>					
02B0H +8*(n-2) + 6 <LSB>	Phase voltage n-order harmonics average	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
02B0H +8*(n-2) + 7 <MSB>					
03A8H +8*(n-2) <LSB>	Line voltage n-order Harmonics1-2	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
03A8H +8*(n-2) + 1 <MSB>					
03A8H +8*(n-2) + 2 <LSB>	Line voltage n-order Harmonics2-3	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
03A8H +8*(n-2) + 3 <MSB>					
03A8H +8*(n-2) + 4 <LSB>	Line voltage n-order Harmonics3-1	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
03A8H +8*(n-2) + 5 <MSB>					
03A8H +8*(n-2) + 6 <LSB>	Line voltage n-order harmonics average	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
03A8H +8*(n-2) + 7 <MSB>					
04A0H +8*(n-2) <LSB>	Current n-order harmonics ①	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
04A0H +8*(n-2) + 1 <MSB>					
04A0H +8*(n-2) + 2 <LSB>	Current n-order harmonics ②	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
04A0H +8*(n-2) + 3 <MSB>					
04A0H +8*(n-2) + 4 <LSB>	Current n-order harmonics ③	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
04A0H +8*(n-2) + 5 <MSB>					
04A0H +8*(n-2) + 6 <LSB>	Current n-order harmonics average	0.001%	Signed 32bit	FFF9E580H to 61A80H	03H
04A0H +8*(n-2) + 7 <MSB>					
0590H<LSB>	Integral active power①(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0591H<MSB>					
0592H<LSB>	Integral active power②(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0593H<MSB>					
0594H<LSB>	Integral active power③(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0595H<MSB>					
0596H<LSB>	Totalintegral active power(T1)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0597H<MSB>					
0598H<LSB>	Integral active power①(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0599H<MSB>					
059AH<LSB>	Integral active power②(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
059BH<MSB>					
059CH<LSB>	Integral active power③(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
059EH<LSB>	Total integral active power(T2)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
059FH<MSB>					

* n shows 2 to 31(2H to 1FH).

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
05A0H<LSB>	Integral active power①(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05A1H<MSB>					
05A2H<LSB>	Integral active power②(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05A3H<MSB>					
05A4H<LSB>	Integral active power③(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05A5H<MSB>					
05A6H<LSB>	Totalintegral active power(T3)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
05A7H<MSB>					
05A8H<LSB>	Integral active power①(T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05A9H<MSB>					
05AAH<LSB>	Integral active power②(T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05ABH<MSB>					
05ACH<LSB>	Integral active power③(T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05ADH<MSB>					
05AEH<LSB>	Totalintegral active power(T4)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
05AFH<MSB>					
05B0H<LSB>	Integral reactive power①(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05B1H<MSB>					
05B2H<LSB>	Integral reactive power②(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05B3H<MSB>					
05B4H<LSB>	Integral reactive power③(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05B5H<MSB>					
05B6H<LSB>	Totalintegral reactive power(T1)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
05B7H<MSB>					
05B8H<LSB>	Integral reactive power①(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05B9H<MSB>					
05BAH<LSB>	Integral reactive power②(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05BBH<MSB>					
05BCH<LSB>	Integral reactive power③(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05BDH<MSB>					
05BEH<LSB>	Totalintegral reactive power(T2)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
05BFH<MSB>					
05C0H<LSB>	Integral reactive power①(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05C1H<MSB>					
05C2H<LSB>	Integral reactive power②(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05C3H<MSB>					
05C4H<LSB>	Integral reactive power③(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05C5H<MSB>					
05C6H<LSB>	Totalintegral reactive power(T3)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
05C7H<MSB>					
05C8H<LSB>	Integral reactive power①(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05C9H<MSB>					
05CAH<LSB>	Integral reactive power②(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05CBH<MSB>					
05CCH<LSB>	Integral reactive power③(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05CDH<MSB>					
05CEH<LSB>	Totalintegral reactive power(T4)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
05CFH<MSB>					
05D0H<LSB>	Integral apparent power①(T1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05D1H<MSB>					
05D2H<LSB>	Integral apparent power②(T1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05D3H<MSB>					
05D4H<LSB>	Integral apparent power③(T1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05D5H<MSB>					
05D6H<LSB>	Totalintegral apparent power(T1)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
05D7H<MSB>					
05D8H<LSB>	Integral apparent power①(T2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05D9H<MSB>					
05DAH<LSB>	Integral apparent power②(T2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05DBH<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
05DCH<LSB>	Integral apparent power③(T2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05DDH<MSB>					
05DEH<LSB>	Total integral apparent power (T2)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
05DFH<MSB>					
05E0H<LSB>	Integral apparent power①(T3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05E1H<MSB>					
05E2H<LSB>	Integral apparent power②(T3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05E3H<MSB>					
05E4H<LSB>	Integral apparent power③(T3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05E5H<MSB>					
05E6H<LSB>	Total integral apparent power(T3)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
05E7H<MSB>					
05E8H<LSB>	Integral apparent power①(T4)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05E9H<MSB>					
05EAH<LSB>	Integral apparent power②(T4)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05EBH<MSB>					
05ECH<LSB>	Integral apparent power③(T4)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05EDH<MSB>					
05EEH<LSB>	Total integral apparent power(T4)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
05EFH<MSB>					
05F0H<LSB>	Integral active power (export) ①(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05F1H<MSB>					
05F2H<LSB>	Integral active power (export) ②(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05F3H<MSB>					
05F4H<LSB>	Integral active power (export) ③(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05F5H<MSB>					
05F6H<LSB>	Total integral active power (export) (T1)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
05F7H<MSB>					
05F8H<LSB>	Integral active power (export) ①(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05F9H<MSB>					
05FAH<LSB>	Integral active power (export) ②(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05FBH<MSB>					
05FCH<LSB>	Integral active power (export) ③(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
05FDH<MSB>					
05FEH<LSB>	Total integral active power (export) (T2)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
05FFH<MSB>					
0600H<LSB>	Integral active power (export) ①(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0601H<MSB>					
0602H<LSB>	Integral active power (export) ②(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0603H<MSB>					
0604H<LSB>	Integral active power (export) ③(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0605H<MSB>					
0606H<LSB>	Total integral active power (export) (T3)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
0607H<MSB>					
0608H<LSB>	Integral active power (export) ①(T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0609H<MSB>					
060AH<LSB>	Integral active power (export) ②(T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
060BH<MSB>					
060CH<LSB>	Integral active power (export) ③(T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
060DH<MSB>					
060EH<LSB>	Total integral active power (export) (T4)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
060FH<MSB>					
0610H<LSB>	Integral reactive power (export) ①(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0611H<MSB>					
0612H<LSB>	Integral reactive power (export) ②(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0613H<MSB>					
0614H<LSB>	Integral reactive power (export) ③(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0615H<MSB>					
0616H<LSB>	Total integral reactive power (export) (T1)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0617H<MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
0618H<LSB>	Integral reactive power (export) ①(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0619H<MSB>					
061AH<LSB>	Integral reactive power (export) ②(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
061BH<MSB>					
061CH<LSB>	Integral reactive power (export) ③(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
061DH<MSB>					
061EH<LSB>	Total integral reactive power (export) (T2)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
061FH<MSB>					
0620H<LSB>	Integral reactive power (export) ①(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0621H<MSB>					
0622H<LSB>	Integral reactive power (export) ②(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0623H<MSB>					
0624H<LSB>	Integral reactive power (export) ③(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0625H<MSB>					
0626H<LSB>	Total integral reactive power (export) (T3)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
0627H<MSB>					
0628H<LSB>	Integral reactive power (export) ①(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
0629H<MSB>					
062AH<LSB>	Integral reactive power (export) ②(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
062BH<MSB>					
062CH<LSB>	Integral reactive power (export) ③(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H/10H
062DH<MSB>					
062EH<LSB>	Total integral reactive power (export) (T4)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
062FH<MSB>					
1390H<LSB>	Export power conversion value ①(T1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
1391H<MSB>					
1392H<LSB>	Export power conversion value ②(T1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
1393H<MSB>					
1394H<LSB>	Export power conversion value ③(T1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
1395H<MSB>					
1396H<LSB>	Total Export power conversion value (T1)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
1397H<MSB>					
1398H<LSB>	Export power conversion value ①(T2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
1399H<MSB>					
139AH<LSB>	Export power conversion value ②(T2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
139BH<MSB>					
139CH<LSB>	Export power conversion value ③(T2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
139DH<MSB>					
139EH<LSB>	Total export power conversion value (T2)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
139FH<MSB>					
13A0H<LSB>	Export power conversion value ①(T3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13A1H<MSB>					
13A2H<LSB>	Export power conversion value ②(T3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13A3H<MSB>					
13A4H<LSB>	Export power conversion value ③(T3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13A5H<MSB>					
13A6H<LSB>	Total export power conversion value (T3)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13A7H<MSB>					
13A8H<LSB>	Export power conversion value ①(T4)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13A9H<MSB>					
13AAH<LSB>	Export power conversion value ②(T4)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13ABH<MSB>					
13ACH<LSB>	Export power conversion value ③(T4)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13ADH<MSB>					
13AEH<LSB>	TotalExport power conversion value (T4)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13AFH<MSB>					
13B0H <LSB>	Export power Conversion value (1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13B1H <MSB>					
13B2H <LSB>	Export power conversion value (2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13B3H <MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
13B4H <LSB>	Export power conversion value (3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13B5H <MSB>					
13B6H <LSB>	Total export power conversion value	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13B7H <MSB>					
13C2H <LSB>	Import power conversion value ① (T1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13C3H <MSB>					
13C4H <LSB>	Import power conversion value ② (T1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13C5H <MSB>					
13C6H <LSB>	Import power conversion value ③ (T1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13C7H <MSB>					
13C8H <LSB>	Total import power conversion value (T1)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13C9H <MSB>					
13CAH <LSB>	Import power conversion value ① (T2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13CBH <MSB>					
13CCH <LSB>	Import power conversion value ② (T2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13CDH <MSB>					
13CEH <LSB>	Import power conversion value ③ (T2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13CFH <MSB>					
13D0H <LSB>	Total import power conversion value (T2)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13D1H <MSB>					
13D2H <LSB>	Import power conversion value ① (T3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13D3H <MSB>					
13D4H <LSB>	Import power conversion value ② (T3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13D5H <MSB>					
13D6H <LSB>	Import power conversion value ③ (T3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13D7H <MSB>					
13D8H <LSB>	Total import power conversion value (T3)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13D9H <MSB>					
13DAH <LSB>	Import power conversion value ① (T4)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13DBH <MSB>					
13DCH <LSB>	Import power conversion value ② (T4)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13DDH <MSB>					
13DEH <LSB>	Import power conversion value ③ (T4)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13DFH <MSB>					
13E0H <LSB>	Total import power conversion value (T4)	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13E1H <MSB>					
13E2H <LSB>	Conversion value (1)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13E3H <MSB>					
13E4H <LSB>	Conversion value (2)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13E5H <MSB>					
13E6H <LSB>	Conversion value (3)	0.01	Unsigned 32bit	0H to 3B9AC9FFH	03H
13E7H <MSB>					
13E8H <LSB>	Total conversion value	0.01	Unsigned 32bit	0H to B2D05DFDH	03H
13E9H <MSB>					

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2710H + 19H*(MM-1)	Monthly max. demand date active power(T1)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower min.:01H to 12H	03H
2710H + 19H*(MM-1)+1	Monthly max. demand time active power(T1)	—	Unsigned 16bit	Higher dd: 01H to 31H, Lower hh: 00H to 23H	03H
2710H + 19H*(MM-1)+2	Monthly max. demand time active power(T1)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
2710H + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power(T1)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2710H + 19H*(MM-1)+4 <MSB>					
2715H + 19H*(MM-1)	Monthly max. demand date active power(T2)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
2715H + 19H*(MM-1)+1	Monthly max. demand time active power(T2)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
2715H + 19H*(MM-1)+2	Monthly max. demand time active power(T2)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
2715H + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power(T2)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2715H + 19H*(MM-1)+4 <MSB>					
271AH + 19H*(MM-1)	Monthly max. demand date active power(T3)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
271AH + 19H*(MM-1)+1	Monthly max. demand time active power(T3)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
271AH + 19H*(MM-1)+2	Monthly max. demand time active power(T3)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
271AH + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power(T3)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
271AH + 19H*(MM-1)+4 <MSB>					
271FH + 19H*(MM-1)	Monthly max. demand date active power(T4)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
271FH + 19H*(MM-1)+1	Monthly max. demand time active power(T4)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
271FH + 19H*(MM-1)+2	Monthly max. demand time active power(T4)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
271FH + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power(T4)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
271FH + 19H*(MM-1)+4 <MSB>					
2724H + 19H*(MM-1)	Monthly max. demand date active power(T)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
2724H + 19H*(MM-1)+1	Monthly max. demand time active power(T)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
2724H + 19H*(MM-1)+2	Monthly max. demand time active power(T)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2724H+ 19H*(MM-1)+3 <LSB>	Monthly max.demand active power(T)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2724H + 19H*(MM-1)+4 <MSB>					
283CH + 19H*(MM-1)	Monthly max. demand date reactive power (T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
283CH + 19H*(MM-1)+1	Monthly max. demand time reactive power (T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
283CH + 19H*(MM-1)+2	Monthly max. demand time reactive power (T1)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
283CH + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power(T1)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
283CH + 19H*(MM-1)+4 <MSB>					
2841H + 19H*(MM-1)	Monthly max. demand date reactive power(T2)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2841H + 19H*(MM-1)+1	Monthly max. demand time reactive power(T2)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2841H + 19H*(MM-1)+2	Monthly max. demand time reactive power(T2)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2841H + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power(T2)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2841H + 19H*(MM-1)+4 <MSB>					
2846H + 19H*(MM-1)	Monthly max. demand date reactive power(T3)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2846H + 19H*(MM-1)+1	Monthly max. demand time reactive power(T3)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2846H + 19H*(MM-1)+2	Monthly max. demand time reactive power(T3)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2846H + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power(T3)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2846H + 19H*(MM-1)+4 <MSB>					
284BH + 19H*(MM-1)	Monthly max. demand date reactive power(T4)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
284BH + 19H*(MM-1)+1	Monthly max. demand time reactive power(T4)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
284BH + 19H*(MM-1)+2	Monthly max. demand time reactive power(T4)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
284BH + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power(T4)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
284BH + 19H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal		Function code
2850H + 19H*(MM-1)	Monthly max. demand date reactive power(T)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	03H
2850H + 19H*(MM-1)+1	Monthly max. demand time reactive power(T)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	03H
2850H + 19H*(MM-1)+2	Monthly max. demand time reactive power(T)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	03H
2850H + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power(T)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH		03H
2850H + 19H*(MM-1)+4 <MSB>						
2968H + 19H*(MM-1)	Monthly max. demand date apparent power(T1)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	03H
2968H + 19H*(MM-1)+1	Monthly max. demand time apparent power(T1)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	03H
2968H + 19H*(MM-1)+2	Monthly max. demand time apparent power(T1)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	03H
2968H + 19H*(MM-1)+3 <LSB>	Monthly max.demand apparent power(T1)	0.001kVA	Unsigned 32bit	0H to B2D05DFDH		03H
2968H + 19H*(MM-1)+4 <MSB>						
296DH + 19H*(MM-1)	Monthly max. demand date apparent power(T2)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	03H
296DH + 19H*(MM-1)+1	Monthly max. demand time apparent power(T2)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	03H
296DH + 19H*(MM-1)+2	Monthly max. demand time apparent power(T2)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	03H
296DH + 19H*(MM-1)+3 <LSB>	Monthly max.demand apparent power(T2)	0.001kVA	Unsigned 32bit	0H to B2D05DFDH		03H
296DH + 19H*(MM-1)+4 <MSB>						
2972H + 19H*(MM-1)	Monthly max. demand date apparent power(T3)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	03H
2972H + 19H*(MM-1)+1	Monthly max. demand time apparent power(T3)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	03H
2972H + 19H*(MM-1)+2	Monthly max. demand time apparent power(T3)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	03H
2972H + 19H*(MM-1)+3 <LSB>	Monthly max.demand apparent power(T3)	0.001kVA	Unsigned 32bit	0H to B2D05DFDH		03H
2972H + 19H*(MM-1)+4 <MSB>						
2977H + 19H*(MM-1)	Monthly max. demand date apparent power(T4)	—	Unsigned 16bit	Higher yy:00H to 99H,	Lower mm:01H to 12H	03H
2977H + 19H*(MM-1)+1	Monthly max. demand time apparent power(T4)	—	Unsigned 16bit	Higher dd:01H to 31H,	Lower hh:00H to 23H	03H
2977H + 19H*(MM-1)+2	Monthly max. demand time apparent power(T4)	—	Unsigned 16bit	Higher min.:00H to 59H,	Lower ss:00H to 59H	03H

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2977H + 19H*(MM-1)+3 <LSB>	Monthly max.demand apparent power(T4)	0.001kVA	Unsigned 32bit	0H to B2D05DFDH	03H
2977H + 19H*(MM-1)+4 <MSB>					
297CH + 19H*(MM-1)	Monthly max. demand date apparent power(T)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
297CH + 19H*(MM-1)+1	Monthly max. demand time apparent power(T)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
297CH + 19H*(MM-1)+2	Monthly max. demand time apparent power(T)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
297CH + 19H*(MM-1)+3 <LSB>	Monthly max.demand apparent power(T)	0.001kVA	Unsigned 32bit	0H to B2D05DFDH	03H
297CH + 19H*(MM-1)+4 <MSB>					
2A94H + 19H*(MM-1)	Monthly max. demand date active power (export) (T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2A94H + 19H*(MM-1)+1	Monthly max. demand active power (export) (T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2A94H + 19H*(MM-1)+2	Monthly max. demand time active power (export) (T1)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2A94H + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power(export) (T1)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2A94H + 19H*(MM-1)+4 <MSB>					
2A99H + 19H*(MM-1)	Monthly max. demand date active power (export) (T2)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2A99H + 19H*(MM-1)+1	Monthly max. demand time active power (export) (T2)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2A99H + 19H*(MM-1)+2	Monthly max. demand time active power (export) (T2)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2A99H + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power (export) (T2)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2A99H + 19H*(MM-1)+4 <MSB>					
2A9EH + 19H*(MM-1)	Monthly max. demand date active power (export) (T3)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2A9EH + 19H*(MM-1)+1	Monthly max. demand time active power (export) (T3)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2A9EH + 19H*(MM-1)+2	Monthly max. demand time active power (export) (T3)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2A9EH + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power (export) (T3)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2A9EH + 19H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2AA3H + 19H*(MM-1)	Monthly max. demand date active power (export) (T4)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	03H
2AA3H + 19H*(MM-1)+1	Monthly max. demand time active power (export) (T4)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
2AA3H + 19H*(MM-1)+2	Monthly max. demand time active power (export) (T4)	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H Lower	03H
2AA3H + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power (export) (T4)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2AA3H + 19H*(MM-1)+4 <MSB>					
2AA8H + 19H*(MM-1)	Monthly max. demand date active power (export) (T)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	03H
2AA8H + 19H*(MM-1)+1	Monthly max. demand time active power (export) (T)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
2AA8H + 19H*(MM-1)+2	Monthly max. demand time active power (export) (T)	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H Lower	03H
2AA8H + 19H*(MM-1)+3 <LSB>	Monthly max.demand active power (export) (T)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2AA8H + 19H*(MM-1)+4 <MSB>					
2BC0H + 19H*(MM-1)	Monthly max. demand date reactive power (export) (T1)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	03H
2BC0H + 19H*(MM-1)+1	Monthly max. demand time reactive power (export) (T1)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
2BC0H + 19H*(MM-1)+2	Monthly max. demand time reactive power (export) (T1)	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H Lower	03H
2BC0H + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power (export) (T1)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2BC0H + 19H*(MM-1)+4 <MSB>					
2BC5H + 19H*(MM-1)	Monthly max. demand date reactive power (export) (T2)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	03H
2BC5H + 19H*(MM-1)+1	Monthly max. demand time reactive power (export) (T2)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
2BC5H + 19H*(MM-1)+2	Monthly max. demand time reactive power (export) (T2)	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H Lower	03H
2BC5H + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power (export) (T2)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2BC5H + 19H*(MM-1)+4 <MSB>					
2BCAH + 19H*(MM-1)	Monthly max. demand date reactive power (export) (T3)	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H Lower	03H
2BCAH + 19H*(MM-1)+1	Monthly max. demand time reactive power (export) (T3)	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
2BCAH + 19H*(MM-1)+2	Monthly max. demand time reactive power (export) (T3)	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H Lower	03H

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2BCAH + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power (export) (T3)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2BCAH + 19H*(MM-1)+4 <MSB>					
2BCFH + 19H*(MM-1)	Monthly max. demand date reactive power (export) (T4)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2BCFH + 19H*(MM-1)+1	Monthly max. demand time reactive power (export) (T4)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2BCFH + 19H*(MM-1)+2	Monthly max. demand time reactive power (export) (T4)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2BCFH + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power (export) (T4)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2BCFH + 19H*(MM-1)+4 <MSB>					
2BD4H + 19H*(MM-1)	Monthly max. demand date reactive power (export) (T)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2BD4H + 19H*(MM-1)+1	Monthly max. demand time reactive power (export) (T)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2BD4H + 19H*(MM-1)+2	Monthly max. demand time reactive power (export) (T)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2BD4H + 19H*(MM-1)+3 <LSB>	Monthly max.demand reactive power (export) (T)	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2BD4H + 75*(MM-1)+4 <MSB>					
2CECH + 28H*(MM-1)	Monthly max. date Instantaneous active power①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2CECH + 28H*(MM-1)+1	Monthly max. time Instantaneous active power①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2CECH + 28H*(MM-1)+2	Monthly max. time instantaneous active power①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2CECH + 28H*(MM-1)+3 <LSB>	Monthly max. instantaneous active power①	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
2CECH + 28H*(MM-1)+4 <MSB>					
2CF1H + 28H*(MM-1)	Monthly max. date instantaneous active power②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2CF1H + 28H*(MM-1)+1	Monthly max. time instantaneous active power②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2CF1H + 28H*(MM-1)+2	Monthly max. time instantaneous active power②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2CF1H + 28H*(MM-1)+3 <LSB>	Monthly max. instantaneous active power②	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
2CF1H + 28H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal		Function code
2CF6H + 28H*(MM-1)	Monthly max. date instantaneous active power ^③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower	03H
2CF6H + 28H*(MM-1)+1	Monthly max. time instantaneous active power ^③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower	03H
2CF6H + 28H*(MM-1)+2	Monthly max. time instantaneous active power ^③	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower	03H
2CF6H + 28H*(MM-1)+3 <LSB>	Monthly max. instantaneous active power ^③	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH		03H
2CF6H + 28H*(MM-1)+4 <MSB>						
2CFBH + 28H*(MM-1)	Monthly max. date total instantaneous active power	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower	03H
2CFBH + 28H*(MM-1)+1	Monthly max. time total instantaneous active power	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower	03H
2CFBH + 28H*(MM-1)+2	Monthly max. time total instantaneous active power	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower	03H
2CFBH + 28H*(MM-1)+3 <LSB>	Monthly max. total instantaneous active power	0.001kW	Unsigned 32bit	0H to B2D05DFDH		03H
2CFBH + 28H*(MM-1)+4 <MSB>						
2D00H + 28H*(MM-1)	Monthly min. date instantaneous active power ^①	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower	03H
2D00H + 28H*(MM-1)+1	Monthly min. time instantaneous active power ^①	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower	03H
2D00H + 28H*(MM-1)+2	Monthly min. time instantaneous active power ^①	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower	03H
2D00H + 28H*(MM-1)+3 <LSB>	Monthly min. instantaneous active power ^①	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH		03H
2D00H + 28H*(MM-1)+4 <MSB>						
2D05H + 28H*(MM-1)	Monthly min. date instantaneous active power ^②	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower	03H
2D05H + 28H*(MM-1)+1	Monthly min. time instantaneous active power ^②	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower	03H
2D05H + 28H*(MM-1)+2	Monthly min. time instantaneous active power ^②	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower	03H
2D05H + 28H*(MM-1)+3 <LSB>	Monthly min. instantaneous active power ^②	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH		03H
2D05H + 28H*(MM-1)+4 <MSB>						
2D0AH + 28H*(MM-1)	Monthly min. date instantaneous active power ^③	—	Unsigned 16bit	Higher yy:00H to 99H, mm:01H to 12H	Lower	03H
2D0AH + 28H*(MM-1)+1	Monthly min. time instantaneous active power ^③	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H	Lower	03H
2D0AH + 28H*(MM-1)+2	Monthly min. time instantaneous active power ^③	—	Unsigned 16bit	Higher min.:00H to 59H, ss:00H to 59H	Lower	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2D0AH + 28H*(MM-1)+3 <LSB>	Monthly min. instantaneous active power ^③	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
2D0AH + 28H*(MM-1)+4 <MSB>					
2D0FH + 28H*(MM-1)	Monthly min. date Total instantaneous Active power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2D0FH + 28H*(MM-1)+1	Monthly min. time Total instantaneous Active power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2D0FH + 28H*(MM-1)+2	Monthly min. time Total instantaneous Active power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2D0FH + 28H*(MM-1)+3 <LSB>	Monthly min. Total instantaneous Active power	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
2D0FH + 28H*(MM-1)+4 <MSB>					
2ECCH + 28H*(MM-1)	Monthly max. date reactive power ^①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2ECCH + 28H*(MM-1)+1	Monthly max. time reactive power ^①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2ECCH + 28H*(MM-1)+2	Monthly max. time reactive power ^①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2ECCH + 28H*(MM-1)+3 <LSB>	Monthly max. reactive power ^①	0.001kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
2ECCH + 28H*(MM-1)+4 <MSB>					
2ED1H + 28H*(MM-1)	Monthly max. date reactive power ^②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2ED1H + 28H*(MM-1)+1	Monthly max. time reactive power ^②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2ED1H + 28H*(MM-1)+2	Monthly max. time reactive power ^②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2ED1H + 28H*(MM-1)+3 <LSB>	Monthly max. reactive power ^②	0.001kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
2ED1H + 28H*(MM-1)+4 <MSB>					
2ED6H + 28H*(MM-1)	Monthly max. date reactive power ^③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2ED6H + 28H*(MM-1)+1	Monthly max. time reactive power ^③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2ED6H + 28H*(MM-1)+2	Monthly max. time reactive power ^③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2ED6H + 28H*(MM-1)+3 <LSB>	Monthly max. reactive power ^③	0.001kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
2ED6H + 28H*(MM-1)+4 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
2EDBH + 28H*(MM-1)	Monthly max. date total reactive power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2EDBH + 28H*(MM-1)+1	Monthly max. time total reactive power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2EDBH + 28H*(MM-1)+2	Monthly max. time total reactive power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2EDBH + 28H*(MM-1)+3 <LSB>	Monthly max. total reactive power	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2EDBH + 28H*(MM-1)+4 <MSB>					
2EE0H+ 28H*(MM-1)	Monthly min. date reactive power①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2EE0H + 28H*(MM-1)+1	Monthly min. time reactive power①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2EE0H + 28H*(MM-1)+2	Monthly min. time reactive power①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2EE0H + 28H*(MM-1)+3 <LSB>	Monthly min. reactive power①	0.001kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
2EE0H + 28H*(MM-1)+4 <MSB>					
2EE5H + 28H*(MM-1)	Monthly min. date reactive power②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2EE5H + 28H*(MM-1)+1	Monthly min. time reactive power②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2EE5H + 28H*(MM-1)+2	Monthly min. time reactive power②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2EE5H + 28H*(MM-1)+3 <LSB>	Monthly min. reactive power②	0.001kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
2EE5H + 28H*(MM-1)+4 <MSB>					
2EEAH + 28H*(MM-1)	Monthly min. date reactive power③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2EEAH + 28H*(MM-1)+1	Monthly min. time reactive power③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2EEAH + 28H*(MM-1)+2	Monthly min. time reactive power③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2EEAH + 28H*(MM-1)+3 <LSB>	Monthly min. reactive power③	0.001kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
2EEAH + 28H*(MM-1)+4 <MSB>					
2EEFH + 28H*(MM-1)	Monthly min. date total reactive power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
2EEFH + 28H*(MM-1)+1	Monthly min. time total reactive power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
2EEFH + 28H*(MM-1)+2	Monthly min. time total reactive power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
2EEFH + 28H*(MM-1)+3 <LSB>	Monthly min. total reactive power	0.001kvar	Unsigned 32bit	0H to B2D05DFDH	03H
2EEFH + 28H*(MM-1)+4 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
30ACH + 28H*(MM-1)	Monthly max. date apparent power①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
30ACH + 28H*(MM-1)+1	Monthly max. time apparent power①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
30ACH + 28H*(MM-1)+2	Monthly max. time apparent power①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
30ACH + 28H*(MM-1)+3 <LSB>	Monthly max. apparent power①	0.001kVA	Unsigned 32bit	0H to 3B9AC9FFH	03H
30ACH + 28H*(MM-1)+4 <MSB>					
30B1H + 28H*(MM-1)	Monthly max. date apparent power②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
30B1H + 28H*(MM-1)+1	Monthly max. time apparent power②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
30B1H + 28H*(MM-1)+2	Monthly max. time apparent power②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
30B1H + 28H*(MM-1)+3 <LSB>	Monthly max. apparent power②	0.001kVA	Unsigned 32bit	0H to 3B9AC9FFH	03H
30B1H + 28H*(MM-1)+4 <MSB>					
30B6H + 28H*(MM-1)	Monthly max. date apparent power③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
30B6H + 28H*(MM-1)+1	Monthly max. time apparent power③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
30B6H + 28H*(MM-1)+2	Monthly max. time apparent power③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
30B6H + 28H*(MM-1)+3 <LSB>	Monthly max. apparent power③	0.001kVA	Unsigned 32bit	0H to 3B9AC9FFH	03H
30B6H + 28H*(MM-1)+4 <MSB>					
30BBH + 28H*(MM-1)	Monthly max. date total apparent power	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
30BBH + 28H*(MM-1)+1	Monthly max. time total apparent power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
30BBH + 28H*(MM-1)+2	Monthly max. time total apparent power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
30BBH + 28H*(MM-1)+3 <LSB>	Monthly max. total apparent power	0.001kVA	Unsigned 32bit	0H to B2D05DFDH	03H
30BBH + 28H*(MM-1)+4 <MSB>					
30C0H + 28H*(MM-1)	Monthly min. date apparent power①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
30C0H + 28H*(MM-1)+1	Monthly min. time apparent power①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
30C0H + 28H*(MM-1)+2	Monthly min. time apparent power①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
30C0H + 28H*(MM-1)+3 <LSB>	Monthly min. apparent power①	0.001kVA	Unsigned 32bit	0H to 3B9AC9FFH	03H
30C0H + 28H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
30C5H + 28H*(MM-1)	Monthly min. date apparent power ^②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
30C5H + 28H*(MM-1)+1	Monthly min. time apparent power ^②	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
30C5H + 28H*(MM-1)+2	Monthly min. time apparent power ^②	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
30C5H + 28H*(MM-1)+3 <LSB>	Monthly min. apparent power ^②	0.001kVA	Unsigned 32bit	0H to 3B9AC9FFH	03H
30C5H + 28H*(MM-1)+4 <MSB>					
30CAH + 28H*(MM-1)	Monthly min. date apparent power ^③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
30CAH + 28H*(MM-1)+1	Monthly min. time apparent power ^③	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
30CAH + 28H*(MM-1)+2	Monthly min. time apparent power ^③	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
30CAH + 28H*(MM-1)+3 <LSB>	Monthly min. apparent power ^③	0.001kVA	Unsigned 32bit	0H to 3B9AC9FFH	03H
30CAH + 28H*(MM-1)+4 <MSB>					
30CFH + 28H*(MM-1)	Monthly min. date total apparent power	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
30CFH + 28H*(MM-1)+1	Monthly min. time total apparent power	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
30CFH + 28H*(MM-1)+2	Monthly min. time total apparent power	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
30CFH + 28H*(MM-1)+3 <LSB>	Monthly min. total apparent power	0.001 kVA	Unsigned 32bit	0H to B2D05DFDH	03H
30CFH + 28H*(MM-1)+4 <MSB>					
328CH+ 28H*(MM-1)	Monthly max. date active power (export) ^①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
328CH + 28H*(MM-1)+1	Monthly max. time active power (export) ^①	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
328CH + 28H*(MM-1)+2	Monthly max. time active power (export) ^①	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
328CH + 28H*(MM-1)+3 <LSB>	Monthly max. active power (export) ^①	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
328CH + 28H*(MM-1)+4 <MSB>					
3291H + 28H*(MM-1)	Monthly max. date active power (export) ^②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3291H + 28H*(MM-1)+1	Monthly max. time active power (export) ^②	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3291H + 28H*(MM-1)+2	Monthly max. time active power (export) ^②	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3291H + 28H*(MM-1)+3 <LSB>	Monthly max. active power (export) ^②	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
3291H + 28H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3296H + 28H*(MM-1)	Monthly max. date active power (export) ③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3296H + 28H*(MM-1)+1	Monthly max. time active power (export) ③	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3296H + 28H*(MM-1)+2	Monthly max. time active power (export) ③	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3296H + 28H*(MM-1)+3 <LSB>	Monthly max. active power (export) ③	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
3296H + 28H*(MM-1)+4 <MSB>					
329BH + 28H*(MM-1)	Monthly max. date totalactive power (export)	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
329BH + 28H*(MM-1)+1	Monthly max. time totalactive power (export)	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
329BH + 28H*(MM-1)+2	Monthly max. time totalactive power (export)	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
329BH + 28H*(MM-1)+3 <LSB>	Monthly max. totalactive power (export)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
329BH + 28H*(MM-1)+4 <MSB>					
32A0H + 28H*(MM-1)	Monthly min. date active power (export) ①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32A0H + 28H*(MM-1)+1	Monthly min. time active power (export) ①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32A0H + 28H*(MM-1)+2	Monthly min. time active power (export) ①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32A0H + 28H*(MM-1)+3 <LSB>	Monthly min. active power (export) ①	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
32A0H + 28H*(MM-1)+4 <MSB>					
32A5H + 28H*(MM-1)	Monthly min. date active power (export) ②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32A5H + 28H*(MM-1)+1	Monthly min. time active power (export) ②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32A5H + 28H*(MM-1)+2	Monthly min. time active power (export) ②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32A5H + 28H*(MM-1)+3 <LSB>	Monthly min. active power (export) ②	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
32A5H + 28H*(MM-1)+4 <MSB>					
32AAH + 28H*(MM-1)	Monthly min. date active power (export) ③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32AAH + 28H*(MM-1)+1	Monthly min. time active power (export) ③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32AAH + 28H*(MM-1)+2	Monthly min. time active power (export) ③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
32AAH + 28H*(MM-1)+3 <LSB>	Monthly min. active power (export) ③	0.001kW	Unsigned 32bit	0H to 3B9AC9FFH	03H
32AAH + 28H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
32AFH + 28H*(MM-1)	Monthly min. date totalactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
32AFH + 28H*(MM-1)+1	Monthly min. time totalactive power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
32AFH + 28H*(MM-1)+2	Monthly min. time totalactive power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
32AFH + 28H*(MM-1)+3 <LSB>	Monthly min. totalactive power (export)	0.001kW	Unsigned 32bit	0H to B2D05DFDH	03H
32AFH + 28H*(MM-1)+4 <MSB>					
346CH + 28H*(MM-1)	Monthly max. date reactive power (export) ①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
346CH + 28H*(MM-1)+1	Monthly max. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
346CH + 28H*(MM-1)+2	Monthly max. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
346CH + 28H*(MM-1)+3 <LSB>	Monthly max. reactive power (export) ①	0.001 kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
346CH + 28H*(MM-1)+4 <MSB>					
3471H + 28H*(MM-1)	Monthly max. date reactive power (export) ②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3471H + 28H*(MM-1)+1	Monthly max. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3471H + 28H*(MM-1)+2	Monthly max. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3471H + 28H*(MM-1)+3 <LSB>	Monthly max. reactive power (export) ②	0.001 kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
3471H + 28H*(MM-1)+4 <MSB>					
3476H + 28H*(MM-1)	Monthly max. date reactive power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3476H + 28H*(MM-1)+1	Monthly max. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3476H + 28H*(MM-1)+2	Monthly max. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3476H + 28H*(MM-1)+3 <LSB>	Monthly max. reactive power (export) ③	0.001 kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
3476H + 28H*(MM-1)+4 <MSB>					
347BH + 28H*(MM-1)	Monthly max. date totalreactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
347BH + 28H*(MM-1)+1	Monthly max. time totalreactive power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
347BH + 28H*(MM-1)+2	Monthly max. time totalreactive power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
347BH + 28H*(MM-1)+3 <LSB>	Monthly max. totalreactive power (export)	0.001 kvar	Unsigned 32bit	0H to B2D05DFDH	03H
347BH + 28H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3480H + 28H*(MM-1)	Monthly min. date reactive power (export) ①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3480H + 28H*(MM-1)+1	Monthly min. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3480H + 28H*(MM-1)+2	Monthly min. time reactive power (export) ①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3480H + 28H*(MM-1)+3 <LSB>	Monthly min. reactive power (export) ①	0.001 kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
3480H + 28H*(MM-1)+4 <MSB>					
3485H + 28H*(MM-1)	Monthly min. date reactive power (export) ②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3485H + 28H*(MM-1)+1	Monthly min. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3485H + 28H*(MM-1)+2	Monthly min. time reactive power (export) ②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3485H + 28H*(MM-1)+3 <LSB>	Monthly min. reactive power (export) ②	0.001 kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
3485H + 28H*(MM-1)+4 <MSB>					
348AH + 28H*(MM-1)	Monthly min. date reactive power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
348AH + 28H*(MM-1)+1	Monthly min. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
348AH + 28H*(MM-1)+2	Monthly min. time reactive power (export) ③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
348AH + 28H*(MM-1)+3 <LSB>	Monthly min. reactive power (export) ③	0.001 kvar	Unsigned 32bit	0H to 3B9AC9FFH	03H
348AH + 28H*(MM-1)+4 <MSB>					
348FH + 28H*(MM-1)	Monthly min. date Total reactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
348FH + 28H*(MM-1)+1	Monthly min. time Total reactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
348FH + 28H*(MM-1)+2	Monthly min. time Total reactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
348FH + 28H*(MM-1)+3 <LSB>	Monthly min. Total reactive power (export)	0.001 kvar	Unsigned 32bit	0H to B2D05DFDH	03H
348FH + 28H*(MM-1)+4 <MSB>					
364CH + 32H*(MM-1)	Monthly max. date current①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
364CH + 32H*(MM-1)+1	Monthly max. time current①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
364CH + 32H*(MM-1)+2	Monthly max. time current①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
364CH + 32H*(MM-1)+3 <LSB>	Monthly max. current①	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
364CH + 32H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3651H + 32H*(MM-1)	Monthly max. date current②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3651H + 32H*(MM-1)+1	Monthly max. time current②	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3651H + 32H*(MM-1)+2	Monthly max. time current②	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3651H + 32H*(MM-1)+3 <LSB>	Monthly max. current②	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
3651H + 32H*(MM-1)+4 <MSB>					
3656H + 32H*(MM-1)	Monthly max. date current③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3656H + 32H*(MM-1)+1	Monthly max. time current③	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3656H + 32H*(MM-1)+2	Monthly max. time current③	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3656H + 32H*(MM-1)+3 <LSB>	Monthly max. current③	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
3656H + 32H*(MM-1)+4 <MSB>					
365BH + 32H*(MM-1)	Monthly max. date current phaseN	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
365BH + 32H*(MM-1)+1	Monthly max. time Current phaseN	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
365BH + 32H*(MM-1)+2	Monthly max. time Current phaseN	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
365BH + 32H*(MM-1)+3 <LSB>	Monthly max. Current phaseN	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
365BH + 32H*(MM-1)+4 <MSB>					
3660H + 32H*(MM-1)	Monthly max. date current average	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3660H + 32H*(MM-1)+1	Monthly max. time current average	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3660H + 32H*(MM-1)+2	Monthly max. time current average	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3660H + 32H*(MM-1)+3 <LSB>	Monthly max. current average	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
3660H + 32H*(MM-1)+4 <MSB>					
3665H + 32H*(MM-1)	Monthly min. date current①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3665H + 32H*(MM-1)+1	Monthly min. time current①	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3665H + 32H*(MM-1)+2	Monthly min. time current①	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3665H + 32H*(MM-1)+3 <LSB>	Monthly min. current①	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
3665H + 32H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
366AH + 32H*(MM-1)	Monthly min. date current ^②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
366AH + 32H*(MM-1)+1	Monthly min. time current ^②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
366AH + 32H*(MM-1)+2	Monthly min. time current ^②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
366AH + 32H*(MM-1)+3 <LSB>	Monthly min. current ^②	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
366AH + 32H*(MM-1)+4 <MSB>					
366FH + 32H*(MM-1)	Monthly min. date current ^③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
366FH + 32H*(MM-1)+1	Monthly min. time current ^③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
366FH + 32H*(MM-1)+2	Monthly min. time current ^③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
366FH + 32H*(MM-1)+3 <LSB>	Monthly min. current ^③	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
366FH + 32H*(MM-1)+4 <MSB>					
3674H + 32H*(MM-1)	Monthly min. date current phaseN	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3674H + 32H*(MM-1)+1	Monthly min. time current phaseN	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3674H + 32H*(MM-1)+2	Monthly min. time current phaseN	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3674H + 32H*(MM-1)+3 <LSB>	Monthly min. current phaseN	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
3674H + 32H*(MM-1)+4 <MSB>					
3679H + 32H*(MM-1)	Monthly min. date current average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3679H + 32H*(MM-1)+1	Monthly min. time current average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3679H + 32H*(MM-1)+2	Monthly min. time current average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3679H + 32H*(MM-1)+3 <LSB>	Monthly min. current average	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
3679H + 32H*(MM-1)+4 <MSB>					
38A4H + 28H*(MM-1)	Monthly max. date Phase voltage ^①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38A4H + 28H*(MM-1)+1	Monthly max. time Phase voltage ^①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38A4H + 28H*(MM-1)+2	Monthly max. time Phase voltage ^①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38A4H + 28H*(MM-1)+3 <LSB>	Monthly max. Phase voltage ^①	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38A4H + 28H*(MM-1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
38A9H + 28H*(MM-1)	Monthly max. date Phase voltage②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38A9H + 28H*(MM-1)+1	Monthly max. time Phase voltage②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38A9H + 28H*(MM-1)+2	Monthly max. time Phase voltage②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38A9H + 28H*(MM-1)+3 <LSB>	Monthly max. Phase voltage②	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38A9H + 28H*(MM-1)+4 <MSB>					
38AEH + 28H*(MM-1)	Monthly max. date Phase voltage③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38AEH + 28H*(MM-1)+1	Monthly max. time Phase voltage③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38AEH + 28H*(MM-1)+2	Monthly max. time Phase voltage③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38AEH + 28H*(MM-1)+3 <LSB>	Monthly max. Phase voltage③	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38AEH + 28H*(MM-1)+4 <MSB>					
38B3H + 28H*(MM-1)	Monthly max. date Phase voltage average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38B3H + 28H*(MM-1)+1	Monthly max. time Phase voltage average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38B3H + 28H*(MM-1)+2	Monthly max. time Phase voltage average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38B3H + 28H*(MM-1)+3 <LSB>	Monthly max. Phase voltage average	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38B3H + 28H*(MM-1)+4 <MSB>					
38B8H + 28H*(MM-1)	Monthly min. date Phase voltage①	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38B8H + 28H*(MM-1)+1	Monthly min. time Phase voltage①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38B8H + 28H*(MM-1)+2	Monthly min. time Phase voltage①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38B8H + 28H*(MM-1)+3 <LSB>	Monthly min. Phase voltage①	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38B8H + 28H*(MM-1)+4 <MSB>					
38BDH + 28H*(MM-1)	Monthly min. date Phase voltage②	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38BDH + 28H*(MM-1)+1	Monthly min. time Phase voltage②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38BDH + 28H*(MM-1)+2	Monthly min. time Phase voltage②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38BDH + 28H*(MM-1)+3 <LSB>	Monthly min. Phase voltage②	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38BDH + 28H*(MM-1)+4 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
38C2H + 28H*(MM-1)	Monthly min. date Phase voltage ^③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38C2H + 28H*(MM-1)+1	Monthly min. time Phase voltage ^③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38C2H + 28H*(MM-1)+2	Monthly min. time Phase voltage ^③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38C2H + 28H*(MM-1)+3 <LSB>	Monthly min. Phase voltage ^③	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38C2H + 28H*(MM-1)+4 <MSB>					
38C7H + 28H*(MM-1)	Monthly min. date Phase voltage average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
38C7H + 28H*(MM-1)+1	Monthly min. time Phase voltage average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
38C7H + 28H*(MM-1)+2	Monthly min. time Phase voltage average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
38C7H + 28H*(MM-1)+3 <LSB>	Monthly min. Phase voltage average	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
38C7H + 28H*(MM-1)+4 <MSB>					
3A84H + 28H*(MM-1)	Monthly max. date Line voltage 1-2	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3A84H + 28H*(MM-1)+1	Monthly max. time Line voltage 1-2	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3A84H + 28H*(MM-1)+2	Monthly max. time Line voltage 1-2	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3A84H + 28H*(MM-1)+3 <LSB>	Monthly max. Line voltage 1-2	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3A84H + 28H*(MM-1)+4 <MSB>					
3A89H + 28H*(MM-1)	Monthly max. date Line voltage 2-3	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3A89H + 28H*(MM-1)+1	Monthly max. time Line voltage 2-3	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3A89H + 28H*(MM-1)+2	Monthly max. time Line voltage 2-3	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3A89H + 28H*(MM-1)+3 <LSB>	Monthly max. Line voltage 2-3	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3A89H + 28H*(MM-1)+4 <MSB>					
3A8EH + 28H*(MM-1)	Monthly max. date Line voltage 3-1	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3A8EH + 28H*(MM-1)+1	Monthly max. time Line voltage 3-1	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3A8EH + 28H*(MM-1)+2	Monthly max. time Line voltage 3-1	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3A8EH + 28H*(MM-1)+3 <LSB>	Monthly max. Line voltage 3-1	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3A8EH + 28H*(MM-1)+4 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3A93H + 28H*(MM-1)	Monthly max. date Line voltage average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3A93H + 28H*(MM-1)+1	Monthly max. time Line voltage average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3A93H + 28H*(MM-1)+2	Monthly max. time Line voltage average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3A93H + 28H*(MM-1)+3 <LSB>	Monthly max. Line voltage average	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3A93H + 28H*(MM-1)+4 <MSB>					
3A98H + 28H*(MM-1)	Monthly min. date Line voltage 1-2	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3A98H + 28H*(MM-1)+1	Monthly min. time Line voltage 1-2	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3A98H + 28H*(MM-1)+2	Monthly min. time Line voltage 1-2	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3A98H + 28H*(MM-1)+3 <LSB>	Monthly min. Line voltage 1-2	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3A98H + 28H*(MM-1)+4 <MSB>					
3A9DH + 28H*(MM-1)	Monthly min. date Line voltage 2-3	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3A9DH + 28H*(MM-1)+1	Monthly min. time Line voltage 2-3	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3A9DH + 28H*(MM-1)+2	Monthly min. time Line voltage 2-3	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3A9DH + 28H*(MM-1)+3 <LSB>	Monthly min. Line voltage 2-3	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3A9DH + 28H*(MM-1)+4 <MSB>					
3AA2H + 28H*(MM-1)	Monthly min. date Line voltage 3-1	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3AA2H + 28H*(MM-1)+1	Monthly min. time Line voltage 3-1	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3AA2H + 28H*(MM-1)+2	Monthly min. time Line voltage 3-1	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3AA2H + 28H*(MM-1)+3 <LSB>	Monthly min. Line voltage 3-1	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3AA2H + 28H*(MM-1)+4 <MSB>					
3AA7H + 28H*(MM-1)	Monthly min. date Line voltage average	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3AA7H + 28H*(MM-1)+1	Monthly min. time Line voltage average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3AA7H + 28H*(MM-1)+2	Monthly min. time Line voltage average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3AA7H + 28H*(MM-1)+3 <LSB>	Monthly min. Line voltage average	0.01V	Unsigned 32bit	0H to 3B9AC9FFH	03H
3AA7H + 28H*(MM-1)+4 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3C64H+ 20H*(MM-1)	Monthly max. date PF①	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C64H + 20H*(MM-1)+1	Monthly max. time PF①	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3C64H + 20H*(MM-1)+2	Monthly max. time PF①	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3C64H + 20H*(MM-1)+3	Monthly max. PF①	0.001	Signed 16bit	FC18H to 3E8H	03H
3C68H + 20H*(MM-1)	Monthly max. date PF②	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C68H + 20H*(MM-1)+1	Monthly max. time PF②	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3C68H + 20H*(MM-1)+2	Monthly max. time PF②	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3C68H + 20H*(MM-1)+3	Monthly max. PF②	0.001	Signed 16bit	FC18H to 3E8H	03H
3C6CH + 20H*(MM-1)	Monthly max. date PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C6CH + 20H*(MM-1)+1	Monthly max. time PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C6CH + 20H*(MM-1)+2	Monthly max. time PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C6CH + 20H*(MM-1)+3	Monthly max. PF③	0.001	Signed 16bit	FC18H to 3E8H	03H
3C70H+ 20H*(MM-1)	Monthly max. date PF average	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C70H + 20H*(MM-1)+1	Monthly max. time PF average	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C70H + 20H*(MM-1)+2	Monthly max. time PF average	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C70H + 20H*(MM-1)+3	Monthly max. PF average	0.001	Signed 16bit	FC18H to 3E8H	03H
3C74H + 20H*(MM-1)	Monthly min. date PF①	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C74H + 20H*(MM-1)+1	Monthly min. time PF①	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C74H + 20H*(MM-1)+2	Monthly min. time PF①	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C74H + 20H*(MM-1)+3	Monthly min. PF①	0.001	Signed 16bit	FC18H to 3E8H	03H
3C78H + 20H*(MM-1)	Monthly min. date PF②	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C78H + 20H*(MM-1)+1	Monthly min. time PF②	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C78H + 20H*(MM-1)+2	Monthly min. time PF②	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C78H + 20H*(MM-1)+3	Monthly min. PF②	0.001	Signed 16bit	FC18H to 3E8H	03H
3C7CH + 20H*(MM-1)	Monthly min. date PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C7CH + 20H*(MM-1)+1	Monthly min. time PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C7CH + 20H*(MM-1)+2	Monthly min. time PF③	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
3C7CH + 20H*(MM-1)+3	Monthly min. PF③	0.001	Signed 16bit	FC18H to 3E8H	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3C80H + 20H*(MM-1)	Monthly min. date PF average	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3C80H + 20H*(MM-1)+1	Monthly min. time PF average	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3C80H + 20H*(MM-1)+2	Monthly min. time PF average	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3C80H + 20H*(MM-1)+3	Monthly min. PF average	0.001	Signed 16bit	FC18H to 3E8H	03H
3DE4H + 20H*(MM-1)	Monthly max. date Frequency①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3DE4H + 20H*(MM-1)+1	Monthly max. time Frequency①	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3DE4H + 20H*(MM-1)+2	Monthly max. time Frequency①	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3DE4H + 20H*(MM-1)+3	Monthly max. Frequency①	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3DE8H + 20H*(MM-1)	Monthly max. date Frequency②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3DE8H + 20H*(MM-1)+1	Monthly max. time Frequency②	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3DE8H + 20H*(MM-1)+2	Monthly max. time Frequency②	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3DE8H + 20H*(MM-1)+3	Monthly max. Frequency②	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3DECH + 20H*(MM-1)	Monthly max. date Frequency③	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3DECH + 20H*(MM-1)+1	Monthly max. time Frequency③	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3DECH + 20H*(MM-1)+2	Monthly max. time Frequency③	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3DECH + 20H*(MM-1)+3	Monthly max. Frequency③	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3DF0H + 20H*(MM-1)	Monthly max. date Frequency average	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3DF0H + 20H*(MM-1)+1	Monthly max. time Frequency average	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3DF0H + 20H*(MM-1)+2	Monthly max. time Frequency average	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3DF0H + 20H*(MM-1)+3	Monthly max. Frequency average	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3DF4H + 20H*(MM-1)	Monthly min. date Frequency①	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3DF4H + 20H*(MM-1)+1	Monthly min. time Frequency①	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3DF4H + 20H*(MM-1)+2	Monthly min. time Frequency①	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3DF4H + 20H*(MM-1)+3	Monthly min. Frequency①	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3DF8H + 20H*(MM-1)	Monthly min. date Frequency②	—	Unsigned 16bit	Higher yy:00H to 99H, Lower mm:01H to 12H	03H
3DF8H + 20H*(MM-1)+1	Monthly min. time Frequency②	—	Unsigned 16bit	Higher dd:01H to 31H, Lower hh:00H to 23H	03H
3DF8H + 20H*(MM-1)+2	Monthly min. time Frequency②	—	Unsigned 16bit	Higher min.:00H to 59H, Lower ss:00H to 59H	03H
3DF8H + 20H*(MM-1)+3	Monthly min. Frequency②	0.01Hz	Unsigned 16bit	0H to 270FH	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3DFCH + 20H*(MM-1)	Monthly min. date Frequency ^③	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3DFCH + 20H*(MM-1)+1	Monthly min. time Frequency ^③	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3DFCH + 20H*(MM-1)+2	Monthly min. time Frequency ^③	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3DFCH + 20H*(MM-1)+3	Monthly min. Frequency ^③	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3E00H+ 20H*(MM-1)	Monthly min. date Frequency average	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3E00H + 20H*(MM-1)+1	Monthly min. time Frequency average	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3E00H + 20H*(MM-1)+2	Monthly min. time Frequency average	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3E00H + 20H*(MM-1)+3	Monthly min. Frequency average	0.01Hz	Unsigned 16bit	0H to 270FH	03H
3F64H+ AH*(MM-1)	Monthly max. date voltage unbalancing	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3F64H + AH*(MM-1)+1	Monthly max. time voltage unbalancing	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3F64H + AH*(MM-1)+2	Monthly max. time voltage unbalancing	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3F64H + AH*(MM-1)+3 <LSB>	Monthly max. voltage unbalancing	0.001%	Unsigned 32bit	0H to F423FH	03H
3F64H + AH*(MM-1)+4 <MSB>					
3F69H + AH*(MM-1)	Monthly min. date voltage unbalancing	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3F69H + AH*(MM-1)+1	Monthly min. time voltage unbalancing	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3F69H + AH*(MM-1)+2	Monthly min. time voltage unbalancing	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3F69H + AH*(MM-1)+3 <LSB>	Monthly min. voltage unbalancing	0.001%	Unsigned 32bit	0H to F423FH	03H
3F69H + AH*(MM-1)+4 <MSB>					
3FDCH + AH*(MM-1)	Monthly max. date current unbalancing	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3FDCH + AH*(MM-1)+1	Monthly max. time current unbalancing	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3FDCH + AH*(MM-1)+2	Monthly max. time current unbalancing	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
3FDCH + AH*(MM-1)+3 <LSB>	Monthly max. current unbalancing	0.001%	Unsigned 32bit	0H to F423FH	03H
3FDCH + AH*(MM-1)+4 <MSB>					
3FE1H + AH*(MM-1)	Monthly min. date current unbalancing	—	Unsigned 16bit	Higher Lower yy:00H to 99H, mm:01H to 12H	03H
3FE1H + AH*(MM-1)+1	Monthly min. time current unbalancing	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
3FE1H + AH*(MM-1)+2	Monthly min. time current unbalancing	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
3FE1H +AH*(MM-1)+3 <LSB>	Monthly min. current unbalancing	0.001%	Unsigned 32bit	0H to F423FH	03H
3FE1H +AH*(MM-1)+4 <MSB>					
4054H+28H*(MM-1) <LSB>	Monthly integral active power①(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4054H+28H*(MM-1)+1 <MSB>					
4056H+28H*(MM-1) <LSB>	Monthly integral active power②(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4056H+28H*(MM-1)+1 <MSB>					
4058H+28H*(MM-1) <LSB>	Monthly integral active power③(T1)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4058H+28H*(MM-1)+1 <MSB>					
405AH+28H*(MM-1) <LSB>	Monthly total integral active power(T1)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
405AH+28H*(MM-1)+1 <MSB>					
405CH+28H*(MM-1) <LSB>	Monthly integral active power①(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
405CH+28H*(MM-1)+1 <MSB>					
405EH+28H*(MM-1) <LSB>	Monthly integral active power②(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
405EH+28H*(MM-1)+1 <MSB>					
4060H+28H*(MM-1) <LSB>	Monthly integral active power③(T2)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4060H+28H*(MM-1)+1 <MSB>					
4062H+28H*(MM-1) <LSB>	Monthly total integral active power(T2)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
4062H+28H*(MM-1)+1 <MSB>					
4064H +28H*(MM-1) <LSB>	Monthly integral active power①(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4064H +28H*(MM-1)+1 <MSB>					
4066H +28H*(MM-1) <LSB>	Monthly integral active power②(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4066H +28H*(MM-1)+1 <MSB>					
4068H +28H*(MM-1) <LSB>	Monthly integral active power③(T3)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4068H +28H*(MM-1)+1 <MSB>					
406AH +28H*(MM-1) <LSB>	Monthly total integral active power(T3)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
406AH +28H*(MM-1)+1 <MSB>					
406CH +28H*(MM-1) <LSB>	Monthly integral active power① (T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
406CH +28H*(MM-1)+1 <MSB>					
406EH+28H*(MM-1) <LSB>	Monthly integral active power② (T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
406EH +28H*(MM-1)+1 <MSB>					
4070H+28H*(MM-1) <LSB>	Monthly integral active power③ (T4)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4070H +28H*(MM-1)+1 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
4072H +28H*(MM-1) <LSB>	Monthly total integral active power(T4)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
4072H +28H*(MM-1)+1 <MSB>					
4074H +28H*(MM-1) <LSB>	Monthly integral active power① (T)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4074H +28H*(MM-1)+1 <MSB>					
4076H +28H*(MM-1) <LSB>	Monthly integral active power② (T)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4076H +28H*(MM-1)+1 <MSB>					
4078H +28H*(MM-1) <LSB>	Monthly integral active power③ (T)	0.001kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4078H +28H*(MM-1)+1 <MSB>					
407AH +28H*(MM-1) <LSB>	Monthly total integral active power(T)	0.001kWh	Unsigned 32bit	0H to B2D05DFDH	03H
407AH +28H*(MM-1)+1 <MSB>					
4234H +28H*(MM-1) <LSB>	Monthly integral reactive power① (T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4234H +28H*(MM-1)+1 <MSB>					
4236H +28H*(MM-1) <LSB>	Monthly integral reactive power② (T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4236H +28H*(MM-1)+1 <MSB>					
4238H +28H*(MM-1) <LSB>	Monthly integral reactive power③ (T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4238H +28H*(MM-1)+1 <MSB>					
423AH +28H*(MM-1) <LSB>	Monthly total integral reactive power(T1)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
423AH +28H*(MM-1)+1 <MSB>					
423CH+28H*(MM-1) <LSB>	Monthly integral reactive power① (T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
423CH +28H*(MM-1)+1 <MSB>					
423EH +28H*(MM-1) <LSB>	Monthly integral reactive power② (T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
423EH +28H*(MM-1)+1 <MSB>					
4240H +28H*(MM-1) <LSB>	Monthly integral reactive power③ (T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4240H +28H*(MM-1)+1 <MSB>					
4242H +28H*(MM-1) <LSB>	Monthly total integral reactive power(T2)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
4242H +28H*(MM-1)+1 <MSB>					
4244H +28H*(MM-1) <LSB>	Monthly integral reactive power① (T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4244H +28H*(MM-1)+1 <MSB>					
4246H +28H*(MM-1) <LSB>	Monthly integral reactive power② (T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4246H +28H*(MM-1)+1 <MSB>					
4248H +28H*(MM-1) <LSB>	Monthly integral reactive power③ (T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4248H +28H*(MM-1)+1 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
424AH +28H*(MM-1) <LSB>	Monthly total integral reactive power(T3)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
424AH +28H*(MM-1)+1 <MSB>					
424CH +28H*(MM-1) <LSB>	Monthly integral reactive power① (T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
424CH +28H*(MM-1)+1 <MSB>					
424EH +28H*(MM-1) <LSB>	Monthly integral reactive power② (T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
424EH +28H*(MM-1)+1 <MSB>					
4250H +28H*(MM-1) <LSB>	Monthly integral reactive power③ (T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4250H +28H*(MM-1)+1 <MSB>					
4252H +28H*(MM-1) <LSB>	Monthly total integral reactive power(T4)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
4252H +28H*(MM-1)+1 <MSB>					
4254H +28H*(MM-1) <LSB>	Monthly integral reactive power① (T)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4254H +28H*(MM-1)+1 <MSB>					
4256H +28H*(MM-1) <LSB>	Monthly integral reactive power② (T)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4256H +28H*(MM-1)+1 <MSB>					
4258H +28H*(MM-1) <LSB>	Monthly integral reactive power③ (T)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4258H +28H*(MM-1)+1 <MSB>					
425AH +28H*(MM-1) <LSB>	Monthly total integral reactive power(T)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
425AH +28H*(MM-1)+1 <MSB>					
4414H+28H*(MM-1) <LSB>	Monthly integral apparent power① (T1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4414H +28H*(MM-1)+1 <MSB>					
4416H +28H*(MM-1) <LSB>	Monthly integral apparent power② (T1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4416H +28H*(MM-1)+1 <MSB>					
4418H +28H*(MM-1) <LSB>	Monthly integral apparent power③ (T1)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4418H +28H*(MM-1)+1 <MSB>					
441AH +28H*(MM-1) <LSB>	Monthly total integral apparent power(T1)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
441AH +28H*(MM-1)+1 <MSB>					
441CH +28H*(MM-1) <LSB>	Monthly integral apparent power① (T2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
441CH +28H*(MM-1)+1 <MSB>					
441EH +28H*(MM-1) <LSB>	Monthly integral apparent power② (T2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
441EH +28H*(MM-1)+1 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
4420H+28H*(MM-1) <LSB>	Monthly integral apparent power ^③ (T2)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4420H +28H*(MM-1)+1 <MSB>					
4422H +28H*(MM-1) <LSB>	Monthly totalintegral apparent power(T2)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
4422H +28H*(MM-1)+1 <MSB>					
4424H +28H*(MM-1) <LSB>	Monthly integral apparent power ^① (T3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4424H +28H*(MM-1)+1 <MSB>					
4426H +28H*(MM-1) <LSB>	Monthly integral apparent power ^② (T3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4426H +28H*(MM-1)+1 <MSB>					
4428H +28H*(MM-1) <LSB>	Monthly integral apparent power ^③ (T3)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4428H +28H*(MM-1)+1 <MSB>					
442AH +28H*(MM-1) <LSB>	Monthly totalintegral apparent power(T3)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
442AH +28H*(MM-1)+1 <MSB>					
442CH +28H*(MM-1) <LSB>	Monthly integral apparent power ^① (T4)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
442CH +28H*(MM-1)+1 <MSB>					
442EH +28H*(MM-1) <LSB>	Monthly integral apparent power ^② (T4)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
442EH +28H*(MM-1)+1 <MSB>					
4430H +28H*(MM-1) <LSB>	Monthly integral apparent power ^③ (T4)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4430H +28H*(MM-1)+1 <MSB>					
4432H +28H*(MM-1) <LSB>	Monthly totalintegral apparent power(T4)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
4432H +28H*(MM-1)+1 <MSB>					
4434H +28H*(MM-1) <LSB>	Monthly integral apparent power ^① (T)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4434H +28H*(MM-1)+1 <MSB>					
4436H +28H*(MM-1) <LSB>	Monthly integral apparent power ^② (T)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4436H +28H*(MM-1)+1 <MSB>					
4438H +28H*(MM-1) <LSB>	Monthly integral apparent power ^③ (T)	0.001 kVAh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4438H +28H*(MM-1)+1 <MSB>					
443AH +28H*(MM-1) <LSB>	Monthly total integral apparent power(T)	0.001 kVAh	Unsigned 32bit	0H to B2D05DFDH	03H
443AH +28H*(MM-1)+1 <MSB>					
45F4H+28H*(MM-1) <LSB>	Monthly integral active power (export) ^① (T1)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
45F4H +28H*(MM-1)+1 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
45F6H +28H*(MM-1) <LSB>	Monthly integral active power (export) ② (T1)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
45F6H +28H*(MM-1)+1 <MSB>					
45F8H +28H*(MM-1) <LSB>	Monthly integral active power (export) ③ (T1)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
45F8H +28H*(MM-1)+1 <MSB>					
45FAH +28H*(MM-1) <LSB>	Monthly total integral active power (export) (T1)	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
45FAH +28H*(MM-1)+1 <MSB>					
45FCH +28H*(MM-1) <LSB>	Monthly integral active power (export) ① (T2)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
45FCH +28H*(MM-1)+1 <MSB>					
45FEH +28H*(MM-1) <LSB>	Monthly integral active power (export) ② (T2)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
45FEH +28H*(MM-1)+1 <MSB>					
4600H +28H*(MM-1) <LSB>	Monthly integral active power (export) ③ (T2)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4600H +28H*(MM-1)+1 <MSB>					
4602H +28H*(MM-1) <LSB>	Monthly total integral active power (export) (T2)	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
4602H +28H*(MM-1)+1 <MSB>					
4604H +28H*(MM-1) <LSB>	Monthly integral active power (export) ① (T3)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4604H +28H*(MM-1)+1 <MSB>					
4606H +28H*(MM-1) <LSB>	Monthly integral active power (export) ② (T3)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4606H +28H*(MM-1)+1 <MSB>					
4608H +28H*(MM-1) <LSB>	Monthly integral active power (export) ③ (T3)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4608H +28H*(MM-1)+1 <MSB>					
460AH +28H*(MM-1) <LSB>	Monthly total integral active power (export) (T3)	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
460AH +28H*(MM-1)+1 <MSB>					
460CH +28H*(MM-1) <LSB>	Monthly integral active power (export) ① (T4)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
460CH +28H*(MM-1)+1 <MSB>					
460EH +28H*(MM-1) <LSB>	Monthly integral active power (export) ② (T4)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
460EH +28H*(MM-1)+1 <MSB>					
4610H+28H*(MM-1) <LSB>	Monthly integral active power (export) ③ (T4)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4610H +28H*(MM-1)+1 <MSB>					
4612H +28H*(MM-1) <LSB>	Monthly total integral active power (export) (T4)	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
4612H +28H*(MM-1)+1 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
4614H +28H*(MM-1) <LSB>	Monthly integral active power (export) ①(T)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4614H +28H*(MM-1)+1 <MSB>					
4616H +28H*(MM-1) <LSB>	Monthly integral active power (export) ② (T)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4616H +28H*(MM-1)+1 <MSB>					
4618H +28H*(MM-1) <LSB>	Monthly integral active power (export) ③(T)	0.001 kWh	Unsigned 32bit	0H to 3B9AC9FFH	03H
4618H +28H*(MM-1)+1 <MSB>					
461AH +28H*(MM-1) <LSB>	Monthly total integral active power (export) (T)	0.001 kWh	Unsigned 32bit	0H to B2D05DFDH	03H
461AH +28H*(MM-1)+1 <MSB>					
47D4H+28H*(MM-1) <LSB>	Monthly integral reactive power (export) ① (T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47D4H +28H*(MM-1)+1 <MSB>					
47D6H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ②(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47D6H +28H*(MM-1)+1 <MSB>					
47D8H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ③(T1)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47D8H +28H*(MM-1)+1 <MSB>					
47DAH +28H*(MM-1) <LSB>	Monthly total integral reactive power (export) (T1)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
47DAH +28H*(MM-1)+1 <MSB>					
47DCH +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ①(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47DCH +28H*(MM-1)+1 <MSB>					
47DEH +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ②(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47DEH +28H*(MM-1)+1 <MSB>					
47E0H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ③(T2)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47E0H +28H*(MM-1)+1 <MSB>					
47E2H +28H*(MM-1) <LSB>	Monthly total integral reactive power (export) (T2)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
47E2H +28H*(MM-1)+1 <MSB>					
47E4H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ①(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47E4H +28H*(MM-1)+1 <MSB>					
47E6H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ②(T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47E6H +28H*(MM-1)+1 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
47E8H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ③ (T3)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47E8H +28H*(MM-1)+1 <MSB>					
47EAH +28H*(MM-1) <LSB>	Monthly total integral reactive power (export) (T3)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
47EAH +28H*(MM-1)+1 <MSB>					
47ECH +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ①(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47ECH +28H*(MM-1)+1 <MSB>					
47EEH +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ②(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47EEH +28H*(MM-1)+1 <MSB>					
47F0H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ③(T4)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47F0H +28H*(MM-1)+1 <MSB>					
47F2H +28H*(MM-1) <LSB>	Monthly total integral reactive power (export) (T4)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
47F2H +28H*(MM-1)+1 <MSB>					
47F4H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ①(T)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47F4H +28H*(MM-1)+1 <MSB>					
47F6H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ②(T)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47F6H +28H*(MM-1)+1 <MSB>					
47F8H +28H*(MM-1) <LSB>	Monthly integral reactive power (export) ③(T)	0.001 kvarh	Unsigned 32bit	0H to 3B9AC9FFH	03H
47F8H +28H*(MM-1)+1 <MSB>					
47FAH +28H*(MM-1) <LSB>	Monthly total integral reactive power (export) (T)	0.001 kvarh	Unsigned 32bit	0H to B2D05DFDH	03H
47FAH +28H*(MM-1)+1 <MSB>					

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Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
4A38H + 6H*(n-1)	Power interruption n date	—	Unsigned 16bit	Higher yy:00H to 99H,mm:01H to 12H Lower	03H
4A38H + 6H*(n-1)+1	Power interruption n time	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
4A38H + 6H*(n-1)+2	Power interruption n time	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	03H
4A38H + 6H*(n-1)+3	Phase of power interruption n	—	Unsigned 16bit	1H:Phase1,2H:Phase2, 3H:Phase3	03H
4A38H + 6H*(n-1)+4 <LSB>	Power interruption n period	1ms	Unsigned 32bit	0H to 3B9AC9FFH	03H
4A38H + 6H*(n-1)+5 <MSB>					
4A74H + 6H*(n-1)	Under voltage n date	—	Unsigned 16bit	Higher yy:00H to 99H,mm:01H to 12H Lower	03H
4A74H + 6H*(n-1)+1	Under voltage n time	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
4A74H + 6H*(n-1)+2	Under voltage n time	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	03H
4A74H + 6H*(n-1)+3	Phase of under voltage n	—	Unsigned 16bit	1H:Phase1,2H:Phase2, 3H:Phase3	03H
4A74H + 6H*(n-1)+4 <LSB>	Under voltage n period	1ms	Unsigned 32bit	0H to 3B9AC9FFH	03H
4A74H + 6H*(n-1)+5 <MSB>					
4AB0H + 6H*(n-1)	Over voltage n date	—	Unsigned 16bit	Higher yy:00H to 99H,mm:01H to 12H Lower	03H
4AB0H + 6H*(n-1)+1	Over voltage n time	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
4AB0H + 6H*(n-1)+2	Over voltage n time	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	03H
4AB0H + 6H*(n-1)+3	Phase of over voltage n	—	Unsigned 16bit	1H:Phase1,2H:Phase2, 3H:Phase3	03H
4AB0H + 6H*(n-1)+4 <LSB>	Over voltage n period	1ms	Unsigned 32bit	0H to 3B9AC9FFH	03H
4AB0H + 6H*(n-1)+5 <MSB>					
4AECH + 6H*(n-1)	Over current n date	—	Unsigned 16bit	Higher yy:00H to 99H,mm:01H to 12H Lower	03H
4AECH + 6H*(n-1)+1	Over current n time	—	Unsigned 16bit	Higher dd:01H to 31H, hh:00H to 23H Lower	03H
4AECH + 6H*(n-1)+2	Over current n time	—	Unsigned 16bit	Higher min,:00H to 59H, ss:00H to 59H Lower	03H
4AECH + 6H*(n-1)+3	Phase of over current n	—	Unsigned 16bit	1H:Phase1,2H:Phase2, 3H:Phase3	03H
4AECH + 6H*(n-1)+4 <LSB>	Over current n period	1ms	Unsigned 32bit	0H to 3B9AC9FFH	03H
4AECH + 6H*(n-1)+5 <MSB>					

* n shows 1 to 10 (1H to AH).

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
4B28H+ 6H*(n-1)	Under current n date	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
4B28H + 6H*(n-1)+1	Under current n time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
4B28H + 6H*(n-1)+2	Under current n time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
4B28H + 6H*(n-1)+3	Phase of under current n	—	Unsigned 16bit	1H:Phase1,2H:Phase2, 3H:Phase3	03H
4B28H + 6H*(n-1)+4 <LSB>	Under current n period	1ms	Unsigned 32bit	0H to 3B9AC9FFH	03H
4B28H + 6H*(n-1)+5 <MSB>					
4B65H+ 6H*(n-1)	OUT1 Output log n Occurance date	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
4B65H + 6H*(n-1)+1	OUT1 Output log n Occurance time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
4B65H + 6H*(n-1)+2	OUT1 Output log n Occurance time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
4BA1H+ 6H*(n-1)	OUT1 Output log n Occurance date	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
4BA1H + 6H*(n-1)+1	OUT1 Output log n Occurance time	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
4BA1H + 6H*(n-1)+2	OUT1 Output log n Occurance time	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7918H+ 4BH*(MM -1)	Monthly max. demand date current1 (T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7918H + 4BH*(MM -1)+1	Monthly max. demand time current1(T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7918H + 4BH*(MM -1)+2	Monthly max. demand time current1(T1)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7918H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current1(T1)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7918H + 4BH*(MM -1)+4 <MSB>					
791DH+ 4BH*(MM -1)	Monthly max. demand date current2 (T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
791DH + 4BH*(MM -1)+1	Monthly max. demand time current2(T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
791DH + 4BH*(MM -1)+2	Monthly max. demand time current2(T1)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
791DH + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current2(T1)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
791DH + 4BH*(MM -1)+4 <MSB>					
7922H+ 4BH*(MM -1)	Monthly max. demand date current3 (T1)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7922H + 4BH*(MM -1)+1	Monthly max. demand time current3(T1)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7922H + 4BH*(MM -1)+2	Monthly max. demand time current3(T1)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7922H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current3(T1)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7922H + 4BH*(MM -1)+4 <MSB>					

*n shows '1 to 10'(1H to AH).

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
7927H+ 4BH*(MM -1)	Monthly max. demand date current1 (T2)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7927H + 4BH*(MM -1)+1	Monthly max. demand time current1(T2)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7927H + 4BH*(MM -1)+2	Monthly max. demand time current1(T2)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7927H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current1(T2)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7927H + 4BH*(MM -1)+4 <MSB>					
792CH+ 4BH*(MM -1)	Monthly max. demand date current2 (T2)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
792CH + 4BH*(MM -1)+1	Monthly max. demand time current2(T2)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
792CH + 4BH*(MM -1)+2	Monthly max. demand time current2(T2)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
792CH + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current2(T2)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
792CH + 4BH*(MM -1)+4 <MSB>					
7931H+ 4BH*(MM -1)	Monthly max. demand date current3 (T2)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7931H + 4BH*(MM -1)+1	Monthly max. demand time current3(T2)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7931H + 4BH*(MM -1)+2	Monthly max. demand time current3(T2)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7931H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current3(T2)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7931H + 4BH*(MM -1)+4 <MSB>					
7936H+ 4BH*(MM -1)	Monthly max. demand date current1 (T3)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7936H + 4BH*(MM -1)+1	Monthly max. demand time current1(T3)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7936H + 4BH*(MM -1)+2	Monthly max. demand time current1(T3)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7936H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current1(T3)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7936H + 4BH*(MM -1)+4 <MSB>					
793BH+ 4BH*(MM -1)	Monthly max. demand date current2 (T3)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
793BH + 4BH*(MM -1)+1	Monthly max. demand time current2(T3)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
793BH + 4BH*(MM -1)+2	Monthly max. demand time current2(T3)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
793BH + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current2(T3)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
793BH + 4BH*(MM -1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
7940H+ 4BH*(MM -1)	Monthly max. demand date current3 (T3)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7940H + 4BH*(MM -1)+1	Monthly max. demand time current3(T3)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7940H + 4BH*(MM -1)+2	Monthly max. demand time current3(T3)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7940H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current3(T3)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7940H + 4BH*(MM -1)+4 <MSB>					
7945H+ 4BH*(MM -1)	Monthly max. demand date current1 (T4)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7945H + 4BH*(MM -1)+1	Monthly max. demand time current1(T4)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7945H + 4BH*(MM -1)+2	Monthly max. demand time current1(T4)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7945H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current1(T4)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7945H + 4BH*(MM -1)+4 <MSB>					
794AH+ 4BH*(MM -1)	Monthly max. demand date current2 (T4)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
794AH + 4BH*(MM -1)+1	Monthly max. demand time current2(T4)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
794AH + 4BH*(MM -1)+2	Monthly max. demand time current2(T4)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
794AH + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current2(T4)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
794AH + 4BH*(MM -1)+4 <MSB>					
794FH+ 4BH*(MM -1)	Monthly max. demand date current3 (T4)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
794FH + 4BH*(MM -1)+1	Monthly max. demand time current3(T4)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
794FH + 4BH*(MM -1)+2	Monthly max. demand time current3(T4)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
794FH + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current3(T4)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
794FH + 4BH*(MM -1)+4 <MSB>					
7954H+ 4BH*(MM -1)	Monthly max. demand date current1 (T)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7954H + 4BH*(MM -1)+1	Monthly max. demand time current1(T)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7954H + 4BH*(MM -1)+2	Monthly max. demand time current1(T)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7954H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current1(T)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7954H + 4BH*(MM -1)+4 <MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
7959H+ 4BH*(MM -1)	Monthly max. demand date current2 (T)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7959H + 4BH*(MM -1)+1	Monthly max. demand time current2(T)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7959H + 4BH*(MM -1)+2	Monthly max. demand time current2(T)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7959H + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current2(T)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7959H + 4BH*(MM -1)+4 <MSB>					
795EH+ 4BH*(MM -1)	Monthly max. demand date current3 (T)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
795EH + 4BH*(MM -1)+1	Monthly max. demand time current3(T)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
795EH + 4BH*(MM -1)+2	Monthly max. demand time current3(T)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
795EH + 4BH*(MM -1)+3 <LSB>	Monthly max.demand current3(T)	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
795EH + 4BH*(MM -1)+4 <MSB>					
7C9CH	Max. demand date active power	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7C9DH	Max. demand time active power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7C9EH	Max. demand time active power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7C9FH<LSB>	Max. demand value active power	0.001 kW	Unsigned 32bit	0H to B2D05DFDH	03H
7CA0H<MSB>					
7CA1H	Max. demand date reactive power	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CA2H	Max. demand time reactive power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CA3H	Max. demand time reactive power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CA4H<LSB>	Max. demand value reactive power	0.001 kvar	Unsigned 32bit	0H to B2D05DFDH	03H
7CA5H<MSB>					
7CA6H	Max. demand year month apparent power	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CA7H	Max. demand time apparent power	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CA8H	Max. demand time apparent power	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CA9H<LSB>	Max. demand value apparent power	0.001 kVA	Unsigned 32bit	0H to B2D05DFDH	03H
7CAAH<MSB>					
7CABH	Max. demand date active power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CACH	Max. demand time active power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CADH	Max. demand time active power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CAEH<LSB>	Max. demand value active power (export)	0.001 kW	Unsigned 32bit	0H to B2D05DFDH	03H
7CAFH<MSB>					

*MM means '1H to CH' for month, January to December.

Data register	Name	Unit	Kind of data	Range: Hexadecimal	Function code
7CB0H	Max. demand date reactive power (export)	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CB1H	Max. demand time reactive power (export)	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CB2H	Max. demand time reactive power (export)	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CB3H<LSB>	Max. demand value reactive power (export)	0.001 kvar	Unsigned 32bit	0H to B2D05DFDH	03H
7CB4H<MSB>					
7CB5H	Max. demand date current1	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CB6H	Max. demand time current1	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CB7H	Max. demand time current1	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CB8H<LSB>	Max. demand value current1	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7CB9H<MSB>					
7CBAH	Max. demand date current2	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CBBH	Max. demand time current2	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CBCH	Max. demand time current2	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CBDH<LSB>	Max. demand value current2	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7CBEH<MSB>					
7CBFH	Max. demand date current3	—	Unsigned 16bit	Higher Lower yy:00H to 99H,mm:01H to 12H	03H
7CC0H	Max. demand time current3	—	Unsigned 16bit	Higher Lower dd:01H to 31H, hh:00H to 23H	03H
7CC1H	Max. demand time current3	—	Unsigned 16bit	Higher Lower min.:00H to 59H, ss:00H to 59H	03H
7CC2H<LSB>	Max. demand value current3	0.001A	Unsigned 32bit	0H to 3B9AC9FFH	03H
7CC3H<MSB>					

* ' Range ' is not the measurement range, it shows the data range.

<LSB>: Least Significant Byte

<MSB>: Most Significant Byte

note 1) 03H: Read 06H/10H: Write

2) Data register except specified is "0".

3) If each setting value is wrote by communication, it memories to internal memory at the same time. Therefore, change setting frequently makes the internal memory's life short. Avoid to usage like this.

4) Write a data within the range when you write it.

1.5 DL/T645-2007 communication

1.5.1 Overview of DL/T645-2007

Only 2007 version of DL/T645 is supported. Other version is not supported.

◆DL/T645-2007 transmission settings are as below.

Transmission format	8bit
Parity	Even (fixed)
Stop bit	1bit (fixed)
Response time	50ms (fixed)
Stop time between byte	500ms or more

◆Frame format

Frame start number	68H
Address field	A0
	A1
	A2
	A3
	A4
	A5
Frame start symbol	68H
Control code	C
Data field length	L
Data field	DATA
Check code	CS
End symbol	16H

Address field (A0 to A5)

Address (device number) is consisted of 6-byte (12-digit), but the range is 0 to 9999.
(When the number of digit is not filled, it fills it up with '0'.)

Transmission address '999999999999H' is not supported.

Address field supports wild card. It fills it up with AA from the lower to upper without any value.
When it transmits address field, it transmits from lower to upper. (A0 A1 A2 A3 A4 A5)

Ex.) In case of that the address is 55H.

•Correct address field

	Transmission format
Without wild card	55 00 00 00 00 00
With wild card	55 00 AA AA AA AA

•Case that is NG with wild card

Address field	Reason
55 00 00 AA 00 AA	There is '00' between 'AA' and 'AA'.
55 00 00 A0 AA AA	A3 of address field is not 'AA'.

Control code (C)

C							
D7	D6	D5	D4	D3	D2	D1	D0
Transmission direction	Slave response flag	Subsequent frame flag	Function code				

Item	Contents	
Transmission direction (D7)	0	Command frame from master
	1	Response frame from slave
Slave response flag (D6)	0	Slave response is correct.
	1	Slave response is wrong.
Subsequent frame flag (D5)	0	No subsequent data
	1	With subsequent data
Function code (D4 to D0)	00000	Vacant
	01000	Not support
	10001	Read out data
	10010	Not support
	10011	Read out transmission address (device number)
	10100	Write data
	10101	Write transmission address (device number)
	10110	Not support
	10111	Change transmission speed
	11000	Change password
	11001	Not support
	11010	Reset integral power
11011	Not support	

Data field length (L)

It is byte count of data field.

Read : $L \leq 200$, Write: $L \leq 50$ $L=0$ means no data field.

Data field (DATA)

Data field is consisted of 'data type', 'password', 'workers code', 'frame number' and so on.

The content differs according to the control code.

When data is transmitted, 33H is added to each byte. When data is received, 33H is subtracted from each byte.

Ex.) Transmission in case of that data identification is '04 03 FF 00 (DI3,DI2,DI1,DI0)'

Code	Value	Calculation
DI3	37	= 04 + 33
DI2	36	= 03 + 33
DI1	32	= FF + 33 (FF + 33 equal 132. But it makes 1 byte data, 32.)
DI0	33	= 00 + 33

It transmits from the lower, data field is '33 32 36 37(DI0 DI1 DI2 DI3)'.

Ex.) In case of the receiving data is '45 34 (N1 N0)'. (Receive voltage 112V)

Code	Value	Calculation
N1	12	= 45-33
N0	01	= 34-33

It receives from the lower, it is 'N0 N1' and the voltage is 112V.

(It receives with hexadecimal but it doesn't convert the value subtract 33 to decimal.)

Check code (CS)

It is lower 1 byte in total of all byte from frame start symbol to data field.

Ex.) In case of that the transmission command is '68 01 00 00 00 00 00 68 11 04 33 33 34 33 CS 16',

Check code (CS) is as below.

$$68 + 01 + 00 + 00 + 00 + 00 + 00 + 68 + 11 + 04 + 33 + 33 + 34 + 33 = 1B3$$

CS = B3 (CS is lower 1 byte.)

End symbol (16H)

There is 16H at the end of frame.

◆Command for each control code

Read out data

Data read out by the data identifications.

•Command from master; Control code 11H

68H	A0	A1	A2	A3	A4	A5	68H	11H	04H	⇒ continue
Transmission address (A0 to A5 or AAH)								Control code	Data length	

⇒
continue

DI0	DI1	DI2	DI3	CS	16H
Data identification (Add 33H to data identification value)					

•Response from slave (normal)

68H	A0	A1	A2	A3	A4	A5	68H	91H	L	⇒ continue
Transmission address (A0 to A5)									Data length (Data identification byte + data byte)	

⇒
continue

DI0	DI1	DI2	DI3	N1	...	Nm	CS	16H
Data identification (Add 33H to data identification value)				Data (Add 33H to measuring value and setting value)				

Read out transmission address

It read out the transmission address (device number).

It is available only when master and slave is 1:1.

•Command from master; Control code 13H

68H	AAH	AAH	AAH	AAH	AAH	AAH	68H	13H	00H	CS	16H
Transmission address (AAH fix)								Control code			

•Response from slave (normal)

68H	A0	A1	A2	A3	A4	A5	68H	93H	06H	⇒ continue
Transmission address read out from slave										

⇒
continue

A0	A1	A2	A3	A4	A5	CS	16H	
Transmission address read out from slave								

*No response when slave is abnormal.

Write data

It is available only with pressing <MODE> key (programming key).

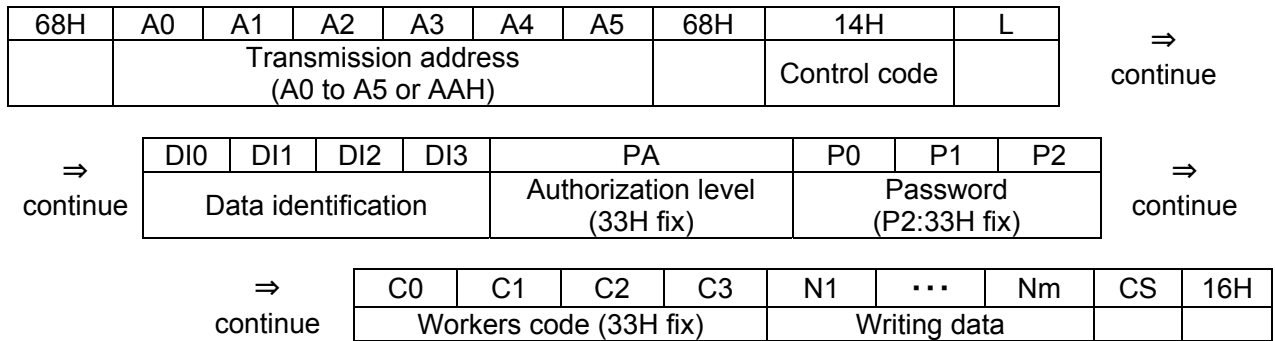
Without pressing programming key, it doesn't response.

For data writing, authorization level (PA0) should be designated, but only '0' is supported.

For workers code, it doesn't record and the code is fixed to '0'.

• Command from master; Control code 14H

Data length (L); Byte count of data identification + Byte count of password authorization level +
Byte count of password + Byte count of workers code + Byte count of data to write



• Response from slave (normal)

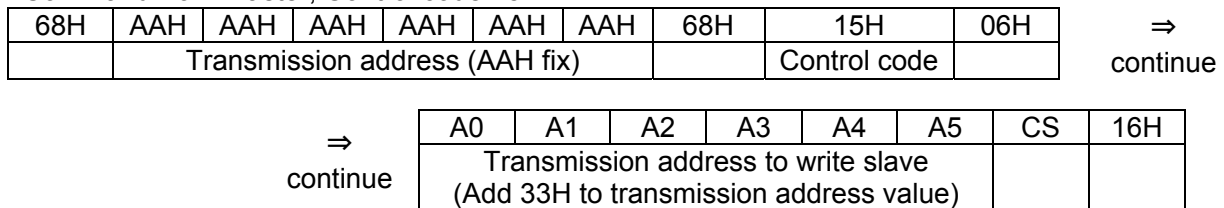
68H	A0	A1	A2	A3	A4	A5	68H	94H	00H	CS	16H
-----	----	----	----	----	----	----	-----	-----	-----	----	-----

Write transmission address

It writes the transmission address (device number). It is available only when master and slave is 1:1.

Without pressing programming key, it doesn't response.

• Command from master; Control code 15H



• Response from slave (normal)

68H	A0	A1	A2	A3	A4	A5	68H	95H	00H	CS	16H
New transmission address											

*No response when slave is abnormal.

Change transmission speed

It changes the transmission speed after it returns the response.

• Command from master; Control code 17H

68H	A0	A1	A2	A3	A4	A5	68H	17H	01H	Z	CS	16H
Transmission address								Control code		Transmission speed (bit flag)		

Transmission speed (bit flag)	bit	Transmission speed [bps]
	Bit 7	38400
	Bit 6	19200
	Bit 5	9600
	Bit 4	4800
	Bit 3	2400
	Bit 2	1200
	Bit 1	vacant
	Bit 0	vacant

• Response from slave (normal)

68H	A0	A1	A2	A3	A4	A5	68H	97H	01H	Z	CS	16H
Transmission address										Transmission speed (bit flag)		

Change password

It changes password.

It is available only with pressing <MODE> key (programming key).

Without pressing programming key, it doesn't response.

For changing password, authorization level (PA0) should be designated, but only '0' is supported.

• Command from master; Control code 18H

68H	A0	A1	A2	A3	A4	A5	68H	18H	0CH	⇒
Transmission address								Control code		continue

⇒	DI0	DI1	DI2	DI3	PA	P0	P1	P2	⇒
Continue	34 3F 33 37 (Add 33H to 01 0C 00 04) (Only "0" is supported.)				Designate authorization level (33H fix)	Designate the present password (P2: 33H fix)			continue

⇒	PAn				P0n	P1n	P2n	CS	16H
continue	Authorization level for password to change (33H fix)				New password (P2n: 33H fix)				

• Response from slave (normal)

68H	A0	A1	A2	A3	A4	A5	68H	18H	04H	⇒
Transmission address										continue

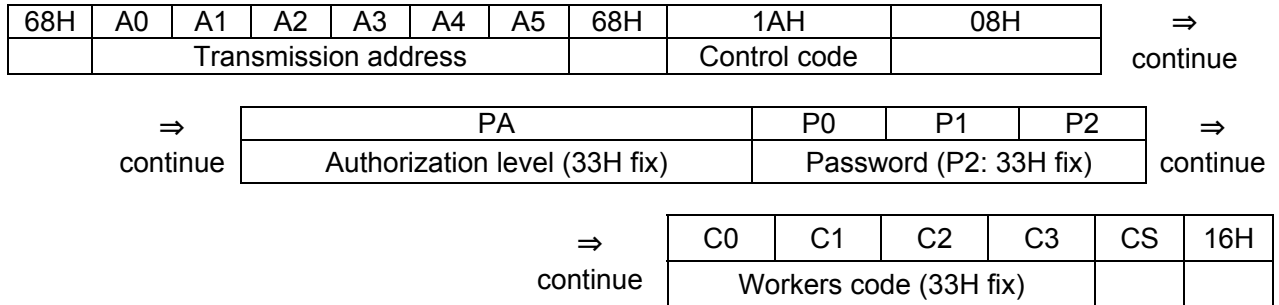
PAn				P0n	P1n	P2n	CS	16H
Authorization level for changed password (33H fix)				Changed password (P2n: 33H fix)				

Reset integral power

It reset all integral power.

For reset integral power, workers code should be designated, but it doesn't record and the code is fixed to '0'. It is available only with pressing <MODE> key (programming key).

• Command from master; control code 1AH



• Response from slave (normal)

68H	A0	A1	A2	A3	A4	A5	68H	9AH	00H	CS	16H
-----	----	----	----	----	----	----	-----	-----	-----	----	-----

Abnormal command from slave

Control code (C); C0H (Response from slave is abnormal.)

+ Control code when error occurs.

68H	A0	A1	A2	A3	A4	A5	68H	C	01H	ERR	16H
							Control code		Error code (bit flag)		

Contents of error code	Bit flag	Contents
	Bit 7	Not support
	Bit 6	Not support
	Bit 5	Not support
	Bit 4	Not support
	Bit 3	Impossible to change transmission speed
	Bit 2	Password mistake
	Bit 1	No request data
Bit 0	Other errors	

Conditions for no response

With the below conditions, slave doesn't response.

- Parity error
- CS error
- Data length (L) doesn't match byte count.
- Error at write or read of transmission address
- Not press programming key (<MODE> key)

Programming key

Programming key is <MODE> key.

With every display, it is possible to change the settings only when pressing <MODE> key.

1.5.2 Data list

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	00	00	Transmission protocol	X	—	1	0:Mewtocol, 1:Modbus 2:DL/T645	R/W
			01	Transmission format	X	—	1	0:8bit-Odd, 1:8bit-None 2:8bit-Even	R/W
			02	Stop bit	X	—	1	1, 2	R/W
			03	Response time	XX	ms	1	1 to 99	R/W
04	05	01	01	CT type (2 nd)	X	A	1	1, 5	R/W
			02	Primary side current of CT	XXXX	A	2	1 to 4000	R/W
			03	VT ratio	XXX.XX	—	3	100 to 60000	R/W
			04	Conversion rate (P) T1	XX.XX	—	2	0 to 9999	R/W
			05	Conversion rate (P) T2	XX.XX	—	2	0 to 9999	R/W
			06	Conversion rate (P) T3	XX.XX	—	2	0 to 9999	R/W
			07	Conversion rate (P) T4	XX.XX	—	2	0 to 9999	R/W
			09	Conversion rate (P)	XX.XX	—	2	0 to 9999	R/W
			0A	Conversion rate(-P) T1	XX.XX	—	2	0 to 9999	R/W
			0B	Conversion rate(-P) T2	XX.XX	—	2	0 to 9999	R/W
			0C	Conversion rate(-P) T3	XX.XX	—	2	0 to 9999	R/W
			0D	Conversion rate(-P) T4	XX.XX	—	2	0 to 9999	R/W
			0F	Conversion rate (-P)	XX.XX	—	2	0 to 9999	R/W
			10	Over current (ON threshold)	XXX.X	0.1%	2	1 to 1200	R/W
			11	Over voltage (ON threshold)	XXX.X	0.1%	2	1000 to 1200	R/W
			12	Under voltage (ON threshold)	XXX.X	0.1%	2	50 to 1000	R/W
			13	Rated voltage	XXX	V	2	100 to 500	R/W
			14	Under current (ON threshold)	XXX.X	0.1%	2	0 to 1000	R/W
15	Over current (OFF threshold)	XXX.X	0.1%	2	1 to 1200	R/W			
16	Over voltage (OFF threshold)	XXX.X	0.1%	2	1000 to 1200	R/W			
17	Under voltage (OFF threshold)	XXX.X	0.1%	2	50 to 1000	R/W			
18	Under current (OFF threshold)	XXX.X	0.1%	2	0 to 1000	R/W			
04	05	02	01	Pulse input IN1	X	—	1	1: 30Hz, 10: Clock correction	R/W
			02	Pulse input IN2	X	—	1	1: 30Hz, 2: 2kHz	R/W
			03	Clock correction	hhmm	—	2	hh: 0 to 23 mm: 0 to 59	R/W
			04	Prescale IN1	XXX.XXX	—	3	1 to 100000	R/W
			05	Prescale IN2	XXX.XXX	—	3	1 to 100000	R/W

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	02	06	Unit for pulse output OUT1	XXX	—	2	1(0.0001kWh), 2(0.001kWh), 3(0.01kWh) 4(0.1kWh), 5(1kWh), 6(10kWh), 7(100kWh) 100(Stand-by alarm) 101(Under voltage alarm) 102(Over voltage alarm) 103(Power interruption alarm) 104(Current alarm) 105(Active power alarm) 106(Count output 1) 107(Count output 2) 108(Level output) 109(PF alarm) 110(Current harmonics alarm) 111(Voltage harmonics alarm) 112(Current THD alarm) 113(Voltage THD alarm) 114(Current unbalancing alarm) 115(Voltage unbalancing alarm) 116(Under current alarm) 117(Reactive power alarm) 118(Apparent power alarm) 119(Over frequency alarm) 120(Under frequency alarm) 121(Power demand alarm) 122(Current demand alarm)	R/W
			07	Unit for pulse output OUT2	XXX	—	2	1(0.0001kWh), 2(0.001kWh), 3(0.01kWh) 4(0.1kWh), 5(1kWh), 6(10kWh), 7(100kWh) 100(Stand-by alarm) 101(Under voltage alarm) 102(Over voltage alarm) 103(Power interruption alarm) 104(Current alarm) 105(Active power alarm) 106(Count output 1) 107(Count output 2) 108(Level output) 109(PF alarm) 110(Current harmonics alarm) 111(Voltage harmonics alarm) 112(Current THD alarm) 113(Voltage THD alarm) 114(Current unbalancing alarm) 115(Voltage unbalancing alarm) 116(Under current alarm) 117(Reactive power alarm) 118(Apparent power alarm) 119(Over frequency alarm) 120(Under frequency alarm) 121(Power demand alarm) 122(Current demand alarm)	R/W
			08	Integral power output target phase OUT1	X	—	1	1:Phase1, 2:Phase2, 3:Phase3, 5:total	R/W
			09	Integral power output target phase OUT2	X	—	1	1:Phase1, 2:Phase2, 3:Phase3, 5:total	R/W

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	02	0A	Power interruption alarmtarget phaseOUT1	X	—	1	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			0B	Power interruption alarmtarget phaseOUT2	X	—	1	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			0C	Over current alarmtarget phase OUT1	X	—	1	0:All(except phaseN), 1:Phase1, 2:Phase2, 3:Phase3, 4:phaseN	R/W
			0D	Over current alarmtarget phase OUT2	X	—	1	0:All(except phaseN), 1:Phase1, 2:Phase2, 3:Phase3, 4:phaseN	R/W
			0E	Over voltage alarmtarget phase OUT1	X	—	1	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			0F	Over voltage alarmtarget phase OUT2	X	—	1	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			10	Under voltage alarmtarget phase OUT1	X	—	1	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			11	Under voltage alarmtarget phase OUT2	X	—	1	0:All, 1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			12	Active power alarm (ON threshold) OUT1	XXXXXXXX.X	kW	4	0 to 29999999	R/W
			13	Active power alarm(phase)1	X	—	1	0:All, 1:Phase1,2:Phase2, 3:Phase3, 5:total	R/W
			14	Active power alarm (ON threshold) OUT2	XXXXXXXX.X	kW	4	0 to 29999999	R/W
			15	Active power alarm(phase)2	X	—	1	0:All, 1:Phase1,2:Phase2, 3:Phase3, 5:total	R/W
			16	Stand-by alarm(threshold)OUT1	XXXX	0.1%	2	1 to 1000	R/W
			17	Stand-by alarm (start time)OUT1	XXXX	min	2	0 to 9999	R/W
			18	Stand-by alarm (phase) OUT1	X	—	1	0:All, 1:Phase1,2:Phase2, 3:Phase3	R/W
			19	Stand-by alarm (threshold)OUT2	XXXX	0.1%	2	1 to 1000	R/W
			1A	Stand-by alarm (start time)OUT2	XXXX	min	2	0 to 9999	R/W
			1B	Stand-by alarm (phase) OUT2	X	—	1	0:All, 1:Phase1,2:Phase2, 3:Phase3	R/W
			1C	Preset OUT1	XXXXXX	0.001	3	0 to 999999	R/W
			1D	Preset OUT2	XXXXXX	0.001	3	0 to 999999	R/W
			1E	Integral direction OUT1	X	—	1	0:export, 1:Integral active power (export)	R/W
			1F	Integral direction OUT2	X	—	1	0:export, 1:Integral active power (export)	R/W
			20	Level output 1	X	—	1	0:Pulse OFF, 1:Pulse ON	R/W
			21	Level output 2	X	—	1	0:Pulse OFF, 1:Pulse ON	R/W
			22	Active power alarm (OFF threshold) OUT1	XXXXXXXX.X	kW	4	0 to 29999999	R/W
23	Active power alarm (OFF threshold) OUT2	XXXXXXXX.X	kW	4	0 to 29999999	R/W			
24	PF alarm(ON threshold) OUT1	X.XXX	—	2	0 to 1000	R/W			
25	PF alarm (OFF threshold)OUT1	X.XXX	—	2	0 to 1000	R/W			

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	02	26	PF alarm(phase) OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			27	PF alarm (ON threshold)OUT2	X.XXX	—	2	0 to 1000	R/W
			28	PF alarm (OFF threshold)OUT2	X.XXX	—	2	0 to 1000	R/W
			29	PF alarm(phase) OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			2A	Current harmonics alarm(ON threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			2B	Current harmonics alarm(OFF threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			2C	Current harmonics alarm(phase) OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			2D	Current harmonics alarm(ON threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			2E	Current harmonics alarm(OFF threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			2F	Current harmonics alarm(phase)OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			30	Voltage harmonics alarm(ON threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			31	Voltage harmonics alarm(OFF threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			32	Voltage harmonics alarm(phase)OUT1	X	—	1	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			33	Voltage harmonics alarm(ON threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			34	Voltage harmonics alarm(OFF threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			35	Voltage harmonics alarm(phase)OUT2	X	—	1	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			36	Current THD alarm (ON threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			37	Current THD alarm (OFF threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			38	Current THD alarm (phase) OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			39	Current THD alarm (ON threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			3A	Current THD alarm (OFF threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			3B	Current THD alarm (phase) OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			3C	Voltage THD alarm (ON threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			3D	Voltage THD alarm (OFF threshold) OUT1	XXX.XX	0.01%	3	0 to 40000	R/W
			3E	Voltage THD alarm (phase) OUT1	X	—	1	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			3F	Voltage THD alarm (ON threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W
			40	Voltage THD alarm (OFF threshold) OUT2	XXX.XX	0.01%	3	0 to 40000	R/W

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	02	41	Voltage THD alarm (phase) OUT2	X	—	1	0:All,1:Phase1(line1-2), 2:Phase2(line2-3), 3:Phase3(line3-1)	R/W
			42	Under current alarm (phase) OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			43	Under current alarm (phase) OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			44	Current unbalancing alarm(ON threshold) OUT1	XXX.XX	0.01%	3	0 to 99999	R/W
			45	Current unbalancing alarm(OFF threshold) OUT1	XXX.XX	0.01%	3	0 to 99999	R/W
			46	Current unbalancing alarm(ON threshold) OUT2	XXX.XX	0.01%	3	0 to 99999	R/W
			47	Current unbalancing alarm(OFF threshold) OUT2	XXX.XX	0.01%	3	0 to 99999	R/W
			48	Voltage unbalancing alarm(ON threshold) OUT1	XXX.XX	0.01%	3	0 to 99999	R/W
			49	Voltage unbalancing alarm(OFF threshold) OUT1	XXX.XX	0.01%	3	0 to 99999	R/W
			4A	Voltage unbalancing alarm(ON threshold) OUT2	XXX.XX	0.01%	3	0 to 99999	R/W
			4B	Voltage unbalancing alarm(OFF threshold) OUT2	XXX.XX	0.01%	3	0 to 99999	R/W
			4C	Reactive power alarm (ON threshold) OUT1	XXXXXXXX.X	0.1kvar	4	0 to 29999999	R/W
			4D	Reactive power alarm (OFF threshold) OUT1	XXXXXXXX.X	0.1kvar	4	0 to 29999999	R/W
			4E	Reactive power alarm(phase)OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3,5:total	R/W
			4F	Reactive power alarm (ON threshold) OUT2	XXXXXXXX.X	0.1kvar	4	0 to 29999999	R/W
			50	Reactive power alarm (OFF threshold) OUT2	XXXXXXXX.X	0.1kvar	4	0 to 29999999	R/W
			51	Reactive power alarm (phase)OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3,5:total	R/W
			52	Apparent power alarm (ON threshold) OUT1	XXXXXXXX.X	0.1kVA	4	0 to 29999999	R/W
			53	Apparent power alarm (OFF threshold) OUT1	XXXXXXXX.X	0.1kVA	4	0 to 29999999	R/W
			54	Apparent power alarm (phase)OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3,5:total	R/W
			55	Apparent power alarm (ON threshold) OUT2	XXXXXXXX.X	0.1kVA	4	0 to 29999999	R/W
			56	Apparent power alarm (OFF threshold) OUT2	XXXXXXXX.X	0.1kVA	4	0 to 29999999	R/W
			57	Apparent power alarm (phase)OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3,5:total	R/W
			58	Over frequency alarm (ON threshold) OUT1	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			59	Over frequency alarm (OFF threshold)OUT1	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			5A	Over frequency alarm (phase)OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	02	5B	Over frequency alarm (ON threshold) OUT2	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			5C	Over frequency alarm (OFF threshold) OUT2	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			5D	Over frequency alarm (phase)OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			5E	Under frequency alarm (ON threshold) OUT1	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			5F	Under frequency alarm (OFF threshold) OUT1	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			60	Under frequency alarm (phase)OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			61	Under frequency alarm (ON threshold) OUT2	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			62	Under frequency alarm (OFF threshold) OUT2	XXX.XX	0.01Hz	3	0.01 to 100.00	R/W
			63	Under frequency alarm (phase)OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			64	Power demand alarm (Power type) OUT1	X	—	1	0: active power, 1: reactive power, 2: apparent power, 3: active power(export), 4: reactive power(export)	R/W
			65	Power demand alarm (ON threshold) OUT1	XXXXX.XXX	0.001	4	0 to 99999.999	R/W
			66	Power demand alarm (OFF threshold) OUT1	XXXXX.XXX	0.001	4	0 to 99999.999	R/W
			67	Power demand alarm (target) OUT1	XXXXX.XXX	0.001	4	0 to 99999.999	R/W
			68	Power demand alarm (hysteresis) OUT1	XXX	1%	2	0 to 100%	R/W
			69	Power demand alarm start-time OUT1	XX	1min,	1	1 to 30	R/W
			6A	Power demand alarm (Power type) OUT2	X	—	1	0: active power, 1: reactive power, 2: apparent power, 3: active power(export), 4: reactive power(export)	R/W
			6B	Power demand alarm (ON threshold) OUT2	XXXXX.XXX	0.001	4	0 to 99999.999	R/W
			6C	Power demand alarm (OFF threshold) OUT2	XXXXX.XXX	0.001	4	0 to 99999.999	R/W
			6D	Power demand alarm (target) OUT2	XXXXX.XXX	0.001	4	0 to 99999.999	R/W
			6E	Power demand alarm (hysteresis) OUT2	XXX	1%	2	0 to 100%	R/W
			6F	Power demand alarm start-time OUT2	XX	1min,	1	1 to 30	R/W
			70	Current demand alarm (ON threshold)OUT1	XXX.X	0.1%	2	0 to 1200	R/W
			71	Current demand alarm (OFF threshold)OUT1	XXX.X	0.1%	2	0 to 1200	R/W
			72	Current demand alarm (phase)OUT1	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W
			73	Current demand alarm (ON threshold)OUT2	XXX.X	0.1%	2	0 to 1200	R/W
74	Current demand alarm (OFF threshold)OUT2	XXX.X	0.1%	2	0 to 1200	R/W			
75	Current demand alarm (phase)OUT2	X	—	1	0:All,1:Phase1, 2:Phase2,3:Phase3	R/W			

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
04	05	03	00	Auto-off	XX	min	1	0 to 99 (0: always ON)	R/W
			01	Luminance	X	—	1	1 to 5	R/W
			02	Auto display start	XX	min	1	0 to 99 (0: fix display item)	R/W
			03	Display cycle	XX	min	1	1 to 99	R/W
			04	Temperature correction value	XXX.X	°C	2	-100.0 to 100.0	R/W
			05	Update cycle	XX	100ms	1	1 to 10	R/W
			06	Blinking during alarm output	X		1	0: not blinking, 1:blinking	R/W
04	05	04	01	Time program 1 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			02	Time program 1(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			03	Time program 2 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			04	Time program 2(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			05	Time program 3 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			06	Time program 3(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			07	Time program 4 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			08	Time program 4(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			09	Time program 5 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			0A	Time program 5(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			0B	Time program 6 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			0C	Time program 6(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			0D	Time program 7 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
			0E	Time program 7(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W
			0F	Time program 8 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W
10	Time program 8(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W			
11	Time program 9 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W			
12	Time program 9(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W			
13	Time program 10 (time-zone)	X		1	0:OFF, 1:T1, 2:T2, 3:T3, 4:T4	R/W			
14	Time program 10(start-time)	hhmm		2	hh:0 to 23, mm:0 to 59	R/W			
04	05	05	00	Power demand type	X	—	1	0:peak demand, 1:sliding block, 2:fixed block, 3:30-min demand	R/W
			01	Power demand interval1	XX	1min,	1	1 to 60	R/W
			02	Power demand interval2	XX	1min,	1	1 to 60	R/W
			03	Current demand interval	XX	1min,	1	1 to 60	R/W
			04	30-min demand calculation method	X	—	1	0:addition, 1:average	R/W
			05	Power input type	X	—	1	0:CT input 1:pulse input	R/W
			06	Pulse type	X	—	1	0:kWh, 1:Pulse	R/W
			07	Pulse rate (electric power conversion)	XXX.XXX	0.001 kWh	3	1 to 100000	R/W
08	Pulse constant value	X	pulse/kWh	1	0:50000, 1:2000	R/W			

Data identification				Name	Data format	unit	byte	range	R/W	
DI ₃	DI ₂	DI ₁	DI ₀							
00	01	00	00	Total integral active power	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	15			Integral active power (1)	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	29			Integral active power (2)	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	3D			Integral active power (3)	XXXXXX.XX	kWh	4	0 to 999999.99	R	
00	0B	00	00	Total integral reactive power	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
	1F			Integral reactive power (1)	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
	33			Integral reactive power (2)	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
	47			Integral reactive power (3)	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
00	09	00	00	Total integral apparent power	XXXXXX.XX	kVAh	4	0 to 999999.99	R	
	1D			Integral apparent power (1)	XXXXXX.XX	kVAh	4	0 to 999999.99	R	
	31			Integral apparent power (2)	XXXXXX.XX	kVAh	4	0 to 999999.99	R	
	45			Integral apparent power (3)	XXXXXX.XX	kVAh	4	0 to 999999.99	R	
00	02	00	00	Total integral export active power	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	16			Integral export active power (1)	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	2A			Integral export active power (2)	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	3E			Integral export active power (3)	XXXXXX.XX	kWh	4	0 to 999999.99	R	
00	0C	00	00	Total integral export reactive power	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
	20			Integral export reactive power (1)	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
	34			Integral export reactive power (2)	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
	48			Integral export reactive power (3)	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
00	01	00	00	【this month】total Integral active power T	XXXXXX.XX	kWh	4	0 to 999999.99	R	
				01	【this month】total Integral active power T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
				02	【this month】total Integral active power T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
				03	【this month】total Integral active power T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
				04	【this month】total Integral active power T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	15			40	【this month】 Integral active power① T	XXXXXX.XX	kWh	4	0 to 999999.99	R
				01	【this month】 Integral active power① T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
				02	【this month】 Integral active power① T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
				03	【this month】 Integral active power① T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
				04	【this month】 Integral active power① T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	29			40	【this month】 integral active power② T	XXXXXX.XX	kWh	4	0 to 999999.99	R
				01	【this month】 Integral active power② T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
				02	【this month】 Integral active power② T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
				03	【this month】 Integral active power② T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
				04	【this month】 Integral active power② T4	XXXXXX.XX	kWh	4	0 to 999999.99	R

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	3D	40	00	【this month】Integral active power ^③ T	XXXXXX.XX	kWh	4	0 to 999999.99	R
		01		【this month】Integral active power ^③ T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
		02		【this month】Integral active power ^③ T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
		03		【this month】Integral active power ^③ T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
		04		【this month】Integral active power ^③ T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	0B	40		【this month】Total integral reactive power T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		01		【this month】Total integral reactive power T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		02		【this month】Total integral reactive power T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		03		【this month】Total integral reactive power T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		04		【this month】Total integral reactive power T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
	1F	40		【this month】Integral reactive power ^① T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		01		【this month】Integral reactive power ^① T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		02		【this month】Integral reactive power ^① T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		03		【this month】Integral reactive power ^① T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		04		【this month】Integral reactive power ^① T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
	33	40		【this month】Integral reactive power ^② T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		01		【this month】Integral reactive power ^② T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		02		【this month】Integral reactive power ^② T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		03		【this month】Integral reactive power ^② T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
		04		【this month】Integral reactive power ^② T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
47	40	【this month】Integral reactive power ^③ T	XXXXXX.XX	kvarh	4	0 to 999999.99	R		
	01	【this month】Integral reactive power ^③ T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R		
	02	【this month】Integral reactive power ^③ T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R		
	03	【this month】Integral reactive power ^③ T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R		
	04	【this month】Integral reactive power ^③ T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R		

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	09	40	00	【this month】Total integral apparent power T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【this month】Total integral apparent power T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【this month】Total integral apparent power T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【this month】Total integral apparent power T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【this month】Total integral apparent power T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	1D	40	00	【this month】Integral apparent power① T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【this month】Integral apparent power① T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【this month】Integral apparent power① T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【this month】Integral apparent power① T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【this month】Integral apparent power① T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	31	40	00	【this month】Integral apparent power② T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【this month】Integral apparent power② T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【this month】Integral apparent power② T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【this month】Integral apparent power② T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【this month】Integral apparent power② T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	45	40	00	【this month】Integral apparent power③ T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【this month】Integral apparent power③ T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【this month】Integral apparent power③ T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【this month】Integral apparent power③ T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【this month】Integral apparent power③ T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
02	40	00	【this month】Total Integral active power (export) T	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	01		【this month】Total Integral active power (export) T1	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	02		【this month】Total Integral active power (export) T2	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	03		【this month】Total Integral active power (export) T3	XXXXXX.XX	kWh	4	0 to 999999.99	R	
	04		【this month】Total Integral active power (export) T4	XXXXXX.XX	kWh	4	0 to 999999.99	R	

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	16	40	00	【this month】Integral active power (export) ① T	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		01		【this month】Integral active power (export) ① T1	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		02		【this month】Integral active power (export) ① T2	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		03		【this month】Integral active power (export) ① T3	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		04		【this month】Integral active power (export) ① T4	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
	2A	40		【this month】Integral active power (export) ② T	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		01		【this month】Integral active power (export) ② T1	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		02		【this month】Integral active power (export) ② T2	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		03		【this month】Integral active power (export) ② T3	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		04		【this month】Integral active power (export) ② T4	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
	3E	40		【this month】Integral active power (export) ③ T	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		01		【this month】Integral active power (export) ③ T1	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		02		【this month】Integral active power (export) ③ T2	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		03		【this month】Integral active power (export) ③ T3	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
		04		【this month】Integral active power (export) ③ T4	XXXXXXXX.XX	kWh	4	0 to 999999.99	R
	0C	40		【this month】Total Integral reactive power (export) T	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R
		01		【this month】Total Integral reactive power (export) T1	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R
		02		【this month】Total Integral reactive power (export) T2	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R
		03		【this month】Total Integral reactive power (export) T3	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R
		04		【this month】Total Integral reactive power (export) T4	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R
20	40	【this month】Integral reactive power (export) ① T	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R		
	01	【this month】Integral reactive power (export) ① T1	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R		
	02	【this month】Integral reactive power (export) ① T2	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R		
	03	【this month】Integral reactive power (export) ① T3	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R		
	04	【this month】Integral reactive power (export) ① T4	XXXXXXXX.XX	kvarh	4	0 to 999999.99	R		

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	34	00	40	【this month】Integral reactive power (export) ② T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【this month】Integral reactive power (export) ② T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【this month】Integral reactive power (export) ② T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【this month】Integral reactive power (export) ② T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【this month】Integral reactive power (export) ② T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
	48	00	40	【this month】Integral reactive power (export) ③ T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【this month】Integral reactive power (export) ③ T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【this month】Integral reactive power (export) ③ T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【this month】Integral reactive power (export) ③ T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【this month】Integral reactive power (export) ③ T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
00	01	MM	00	【MM-month before】Total integral active power T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】Total integral active power T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】Total integral active power T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】Total integral active power T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】Total integral active power T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	15	MM	00	【MM-month before】Integral active power① T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】Integral active power① T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】Integral active power① T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】Integral active power① T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】Integral active power① T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	29	MM	00	【MM-month before】Integral active power② T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】Integral active power② T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】Integral active power② T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】Integral active power② T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】Integral active power② T4	XXXXXX.XX	kWh	4	0 to 999999.99	R

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	3D	MM	00	【MM-month before】 Integral active power ^③ T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】 Integral active power ^③ T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】 Integral active power ^③ T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】 Integral active power ^③ T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】 Integral active power ^③ T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	0B	MM	00	【MM-month before】total Integral reactive power T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【MM-month before】total Integral reactive power T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【MM-month before】total Integral reactive power T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【MM-month before】total Integral reactive power T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【MM-month before】total Integral reactive power T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
	1F	MM	00	【MM-month before】 Integral reactive power ^① T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【MM-month before】 Integral reactive power ^① T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【MM-month before】 Integral reactive power ^① T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【MM-month before】 Integral reactive power ^① T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【MM-month before】 Integral reactive power ^① T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
	33	MM	00	【MM-month before】 Integral reactive power ^② T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【MM-month before】 Integral reactive power ^② T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【MM-month before】 Integral reactive power ^② T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【MM-month before】 Integral reactive power ^② T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【MM-month before】 Integral reactive power ^② T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
47	MM	00	【MM-month before】 Integral reactive power ^③ T	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		01	【MM-month before】 Integral reactive power ^③ T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		02	【MM-month before】 Integral reactive power ^③ T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		03	【MM-month before】 Integral reactive power ^③ T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		04	【MM-month before】 Integral reactive power ^③ T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R	

*MM means 1 to 11 (DI0:01H to 0BH).

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	09	00	MM	【MM-month before】Total integral apparent power T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【MM-month before】Total integral apparent power T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【MM-month before】Total integral apparent power T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【MM-month before】Total integral apparent power T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【MM-month before】Total integral apparent power T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	1D	00		【MM-month before】Integral apparent power① T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【MM-month before】Integral apparent power① T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【MM-month before】Integral apparent power① T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【MM-month before】Integral apparent power① T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【MM-month before】Integral apparent power① T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	31	00		【MM-month before】Integral apparent power② T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【MM-month before】Integral apparent power② T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【MM-month before】Integral apparent power② T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【MM-month before】Integral apparent power② T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【MM-month before】Integral apparent power② T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	45	00		【MM-month before】Integral apparent power③ T	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		01		【MM-month before】Integral apparent power③ T1	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		02		【MM-month before】Integral apparent power③ T2	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		03		【MM-month before】Integral apparent power③ T3	XXXXXX.XX	kVAh	4	0 to 999999.99	R
		04		【MM-month before】Integral apparent power③ T4	XXXXXX.XX	kVAh	4	0 to 999999.99	R
	02	00		【MM-month before】Total integral active power (export) T	XXXXXX.XX	kWh	4	0 to 999999.99	R
		01		【MM-month before】Total integral active power (export) T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
		02		【MM-month before】Total integral active power (export) T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
		03		【MM-month before】Total integral active power (export) T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
		04		【MM-month before】Total integral active power (export) T4	XXXXXX.XX	kWh	4	0 to 999999.99	R

*MM means 1 to 11 (DI0:01H to 0BH).

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	16	MM	00	【MM-month before】Integral active power (export) ① T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】Integral active power (export) ① T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】Integral active power (export) ① T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】Integral active power (export) ① T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】Integral active power (export) ① T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	2A	MM	00	【MM-month before】Integral active power (export) ② T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】Integral active power (export) ② T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】Integral active power (export) ② T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】Integral active power (export) ② T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】Integral active power (export) ② T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	3E	MM	00	【MM-month before】Integral active power (export) ③ T	XXXXXX.XX	kWh	4	0 to 999999.99	R
			01	【MM-month before】Integral active power (export) ③ T1	XXXXXX.XX	kWh	4	0 to 999999.99	R
			02	【MM-month before】Integral active power (export) ③ T2	XXXXXX.XX	kWh	4	0 to 999999.99	R
			03	【MM-month before】Integral active power (export) ③ T3	XXXXXX.XX	kWh	4	0 to 999999.99	R
			04	【MM-month before】Integral active power (export) ③ T4	XXXXXX.XX	kWh	4	0 to 999999.99	R
	0C	MM	00	【MM-month before】Total integral reactive power (export) T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【MM-month before】Total integral reactive power (export) T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【MM-month before】Total integral reactive power (export) T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【MM-month before】Total integral reactive power (export) T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【MM-month before】Total integral reactive power (export) T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
20	MM	00	【MM-month before】Integral reactive power (export) ① T	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		01	【MM-month before】Integral reactive power (export) ① T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		02	【MM-month before】Integral reactive power (export) ① T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		03	【MM-month before】Integral reactive power (export) ① T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R	
		04	【MM-month before】Integral reactive power (export) ① T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R	

*MM means 1 to 11 (DI0:01H to 0BH).

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
00	34	MM	00	【MM-month before】 Integral reactive power (export) ② T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【MM-month before】 Integral reactive power (export) ② T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【MM-month before】 Integral reactive power (export) ② T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【MM-month before】 Integral reactive power (export) ② T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【MM-month before】 Integral reactive power (export) ② T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
	48	MM	00	【MM-month before】 Integral reactive power (export) ③ T	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			01	【MM-month before】 Integral reactive power (export) ③ T1	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			02	【MM-month before】 Integral reactive power (export) ③ T2	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			03	【MM-month before】 Integral reactive power (export) ③ T3	XXXXXX.XX	kvarh	4	0 to 999999.99	R
			04	【MM-month before】 Integral reactive power (export) ③ T4	XXXXXX.XX	kvarh	4	0 to 999999.99	R
01	01	00	00	【this month】 Max. demand active power occurrence time T	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			01	【this month】 Max. demand active power occurrence time T1	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			02	【this month】 Max. demand active power occurrence time T2	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			03	【this month】 Max. demand active power occurrence time T3	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			04	【this month】 Max. demand active power occurrence time T4	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
01	0B	00	00	【this month】 Max. demand reactive power occurrence time T	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			01	【this month】 Max. demand reactive power occurrence time T1	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			02	【this month】 Max. demand reactive power occurrence time T2	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			03	【this month】 Max. demand reactive power occurrence time T3	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			04	【this month】 Max. demand reactive power occurrence time T4	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R

*MM means 1 to 11 (DI0:01H to 0BH).

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
01	09	00	00	【this month】 Max. demand apparent power occurrence time T	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
			01	【this month】 Max. demand apparent power occurrence time T1	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
			02	【this month】 Max. demand apparent power occurrence time T2	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
			03	【this month】 Max. demand apparent power occurrence time T3	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
			04	【this month】 Max. demand apparent power occurrence time T4	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
01	02	00	00	【this month】 Max. demand active power (export) occurrence time T	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			01	【this month】 Max. demand active power (export) occurrence time T1	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			02	【this month】 Max. demand active power (export) occurrence time T2	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			03	【this month】 Max. demand active power (export) occurrence time T3	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
			04	【this month】 Max. demand active power (export) occurrence time T4	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
01	0C	00	00	【this month】 Max. demand reactive power (export) occurrence time T	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			01	【this month】 Max. demand reactive power (export) occurrence time T1	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			02	【this month】 Max. demand reactive power (export) occurrence time T2	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			03	【this month】 Max. demand reactive power (export) occurrence time T3	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
			04	【this month】 Max. demand reactive power (export) occurrence time T4	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R

*MM means 1 to 11 (DI0:01H to 0BH).

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
01	01	00	MM	【MM-month before】 Max.demand active power occurrence time T	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand active power occurrence time T1	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand active power occurrence time T2	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand active power occurrence time T3	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand active power occurrence time T4	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
01	0B	00	MM	【MM-month before】 Max.demand reactive power occurrence time T	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand reactive power occurrence time T1	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand reactive power occurrence time T2	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand reactive power occurrence time T3	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand reactive power occurrence time T4	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
01	09	00	MM	【MM-month before】 Max.demand apparent power occurrence time T	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand apparent power occurrence time T1	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand apparent power occurrence time T2	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand apparent power occurrence time T3	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R
				【MM-month before】 Max.demand apparent power occurrence time T4	XX.XXXX YYMMDDHH MM	kVA date, time	8	0 to 99.999	R

*MM means 1 to 11 (DI0:01H to 0BH).

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
01	02	00	MM	【MM-month before】 Max.demand active power (export) occurrence time T	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
		01		【MM-month before】 Max.demand active power (export) occurrence time T1	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
		02		【MM-month before】 Max.demand active power (export) occurrence time T2	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
		03		【MM-month before】 Max.demand active power (export) occurrence time T3	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
		04		【MM-month before】 Max.demand active power (export) occurrence time T4	XX.XXXX YYMMDDHH MM	kW date, time	8	0 to 99.999	R
01	0C	00	MM	【MM-month before】 Max.demand reactive power (export) occurrence time T	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
		01		【MM-month before】 Max.demand reactive power (export) occurrence time T1	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
		02		【MM-month before】 Max.demand reactive power (export) occurrence time T2	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
		03		【MM-month before】 Max.demand reactive power (export) occurrence time T3	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
		04		【MM-month before】 Max.demand reactive power (export) occurrence time T4	XX.XXXX YYMMDDHH MM	kvar date, time	8	0 to 99.999	R
02	03	00	00	Total instantaneous active power	XX.XXXX	kW	3	-79.999 to 79.999	R
		01		Instantaneous active power (1)	XX.XXXX	kW	3	-79.999 to 79.999	R
		02		Instantaneous active power (2)	XX.XXXX	kW	3	-79.999 to 79.999	R
		03		Instantaneous active power (3)	XX.XXXX	kW	3	-79.999 to 79.999	R
		FF		Instantaneous active power data block			12		

Data identification				Name	Data format	unit	byte	range	R/W
DI ₃	DI ₂	DI ₁	DI ₀						
02	04	00	00	Total instantaneous reactive power	XX.XXXX	kvar	3	-79.999 to 79.999	R
		01		Instantaneous reactive power (1)	XX.XXXX	kvar	3	-79.999 to 79.999	R
		02		Instantaneous reactive power (2)	XX.XXXX	kvar	3	-79.999 to 79.999	R
		03		Instantaneous reactive power (3)	XX.XXXX	kvar	3	-79.999 to 79.999	R
		FF		Instantaneous reactive power data block			12		R
02	05	00	00	Total instantaneous apparent power	XX.XXXX	KVA	3	0 to 99.9999	R
		01		Instantaneous apparent power (1)	XX.XXXX	KVA	3	0 to 99.9999	R
		02		Instantaneous apparent power (2)	XX.XXXX	KVA	3	0 to 99.9999	R
		03		Instantaneous apparent power (3)	XX.XXXX	KVA	3	0 to 99.9999	R
		FF		Instantaneous apparent power data block			12		R
02	01	01	00	Voltage 1	XXX.X	V	2	0 to 999.9	R
		02		Voltage 2	XXX.X	V	2	0 to 999.9	R
		03		Voltage 3	XXX.X	V	2	0 to 999.9	R
		FF		Voltage data block			6		R
02	0C	01	00	Line voltage 1-2	XXX.X	V	2	0 to 999.9	R
		02		Line voltage 2-3	XXX.X	V	2	0 to 999.9	R
		03		Line voltage 3-1	XXX.X	V	2	0 to 999.9	R
		FF		Line voltage data block			6		R
02	02	01	00	Current 1	XXX.XXX	A	3	0 to 999.999	R
		02		Current 2	XXX.XXX	A	3	0 to 999.999	R
		03		Current 3	XXX.XXX	A	3	0 to 999.999	R
		FF		Current data block			9		R
02	06	00	00	Power factor (average)	X.XXX		2	-1.000 to 1.000	R
		01		Power factor 1	X.XXX		2	-1.000 to 1.000	R
		02		Power factor 2	X.XXX		2	-1.000 to 1.000	R
		03		Power factor 3	X.XXX		2	-1.000 to 1.000	R
		FF		Power factor data block			8		R
02	80	00	01	Current N	XXX.XXX	A	3	0 to 999.999	R
			02	Frequency (average)	XX.XX	Hz	2	0 to 99.99	R
			07	Temperature	XX.X	°C	2	-99.9 to 99.9	R

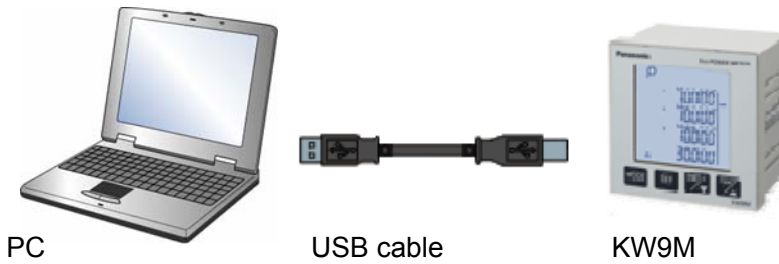
*For signed data, the upper bit shows the sign. '0' shows plus and '1' shows minus.

Chapter 2 How to install USB driver

It is necessary to install USB driver (kw9musb_vxxx.inf) for connecting KW9M Eco-POWER METER via USB communication.

- * Once installing USB driver, it is not necessary to install from the second time.
- * When you change the using port, install the driver again.

Turn on KW9M and connect KW9M and PC via USB cable.
After that, install USB driver according to your OS.



Revision History

Issue Date	Manual No.	Content of revision
August, 2013	WUME-KW9MAP-01	First edition
February, 2014	WUME-KW9MAP-02	2 nd <firmware version Ver.1.20> <Add functions> - Readout power factor status lag / lead

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WUME-KW9MAP-02