ADTEK

CPM-12D

Multifunction Power Meter (DIN rail)

Manual

Rev 1.2
2025-02

Content

CPM-12D Manual

1. Product Overview

Description

CPM-12D din rail mounting power meter with high accuracy measurement for single phase and three-phase system.

Measuring all basic parameters ; V, I, P, Q, kWh, kVarh etc..

Standard with RS485 Modbus RTU communication port, front LCD display with buttons for programming.

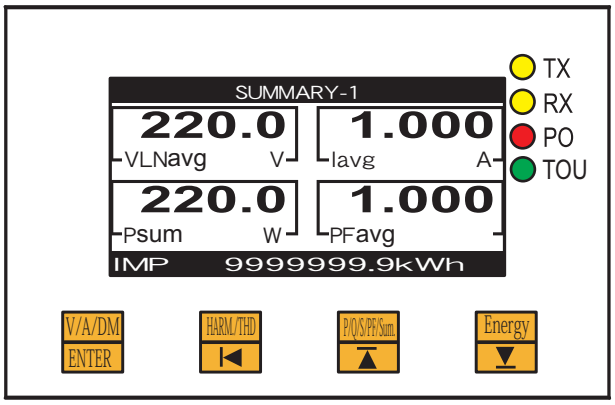
Auto wiring change **(Note)** via software

CE and FCC approved

Note: Auto wiring change have certain condition limit, please refer to operation manual for further details.

2. Specifications

Panel Description



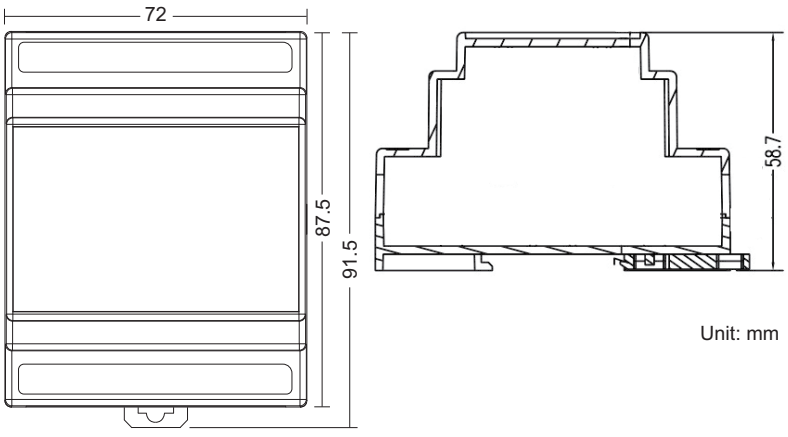
V/A/DM ENTER **Enter** / Quickly index: Voltage / Current

HARM./THD **Shift** / Quickly index: THD

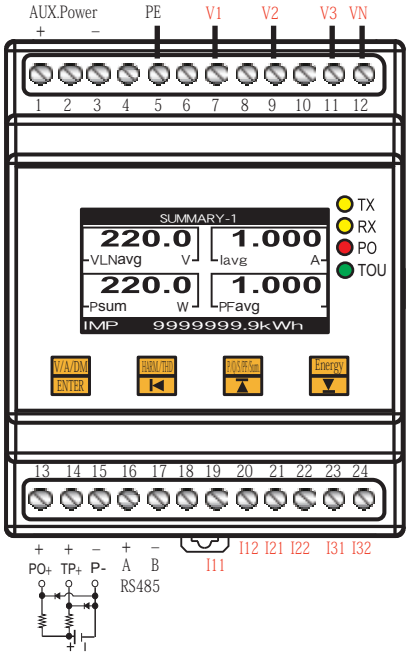
P/Q/S/PF/Sum. **Up** / Quickly index: Power parameters

Energy **Down** / Quickly index: Energy parameters

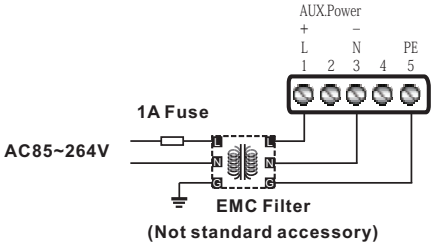
Dimensions & Installation



Unit: mm

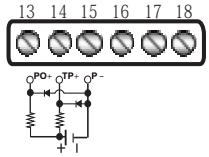


AUX Power



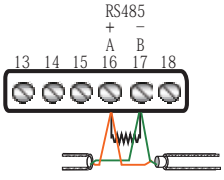
Pulse Output

Terminal blocks:
AWG 28~12 (0.2~2.5mm^2)



RS485 Communication port

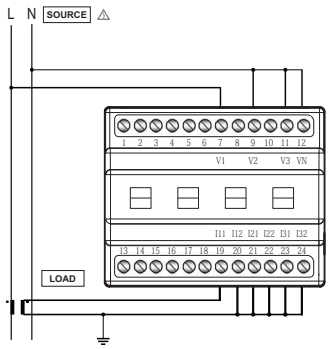
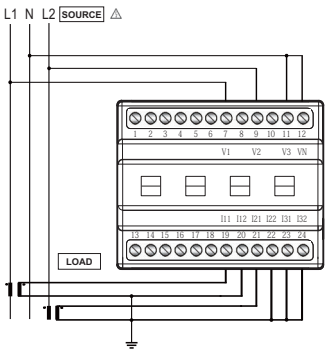
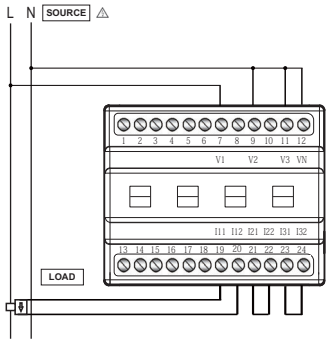
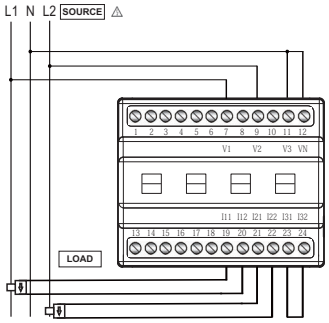
Terminal blocks:
AWG 28~12(0.2~2.5mm^2)



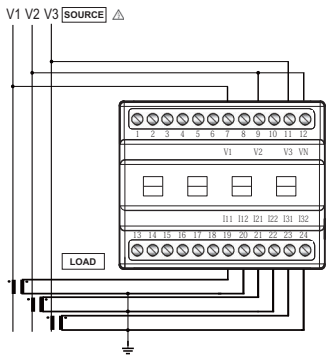
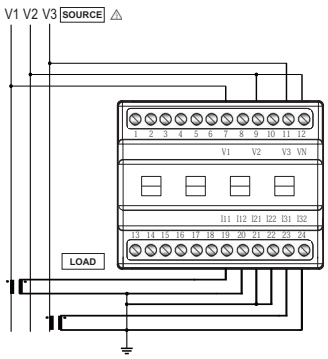
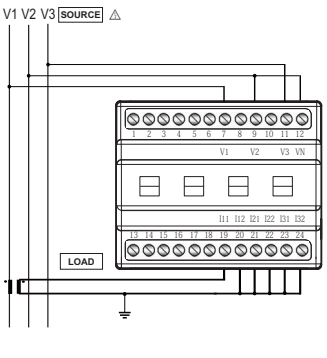
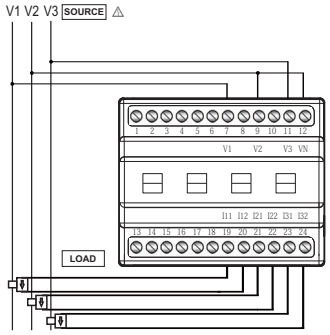
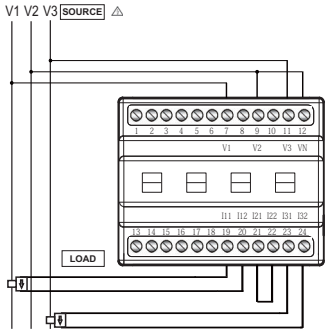
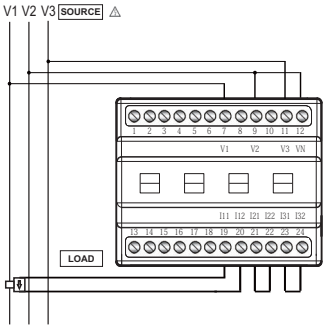
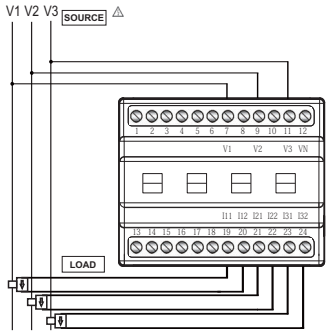
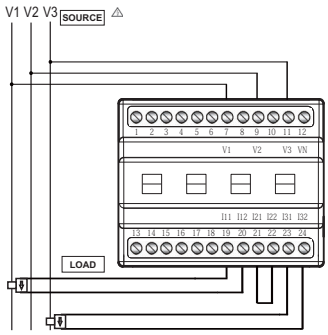
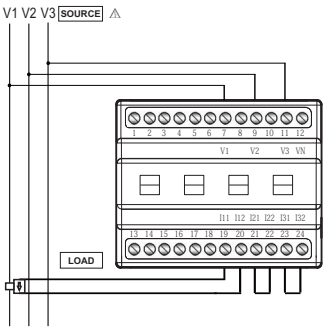
Max. Distance: 1200M
Terminate Resistance suggested :120Ω/0.5W
(Not standard accessory)

3. Wiring Instruction

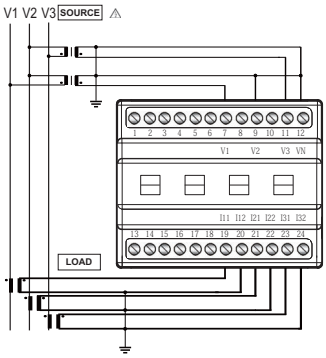
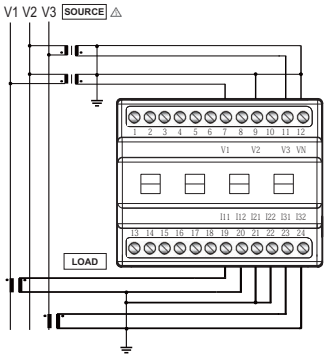
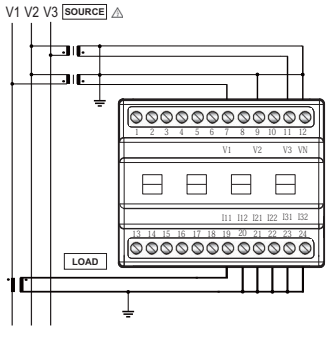
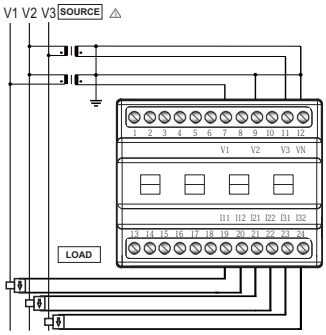
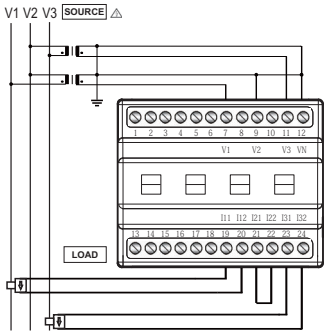
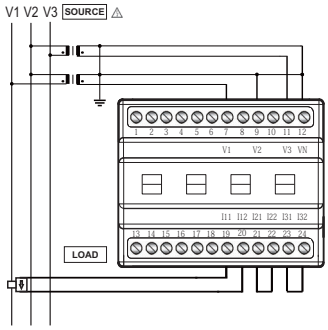
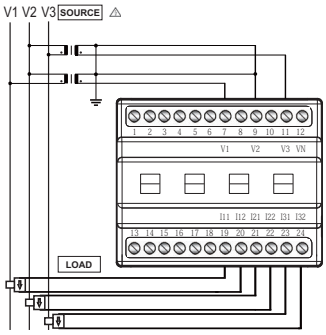
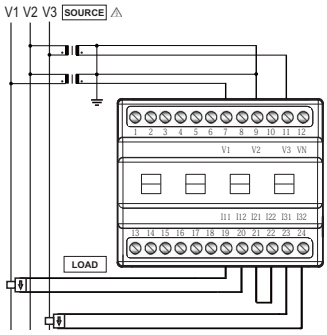
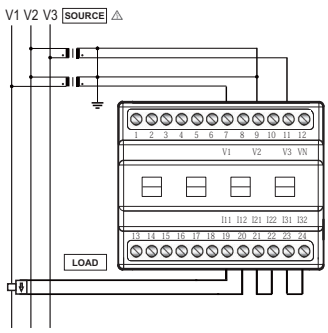
Voltage and current wiring (CT secondary side distinguishes 1A/5A and 333mV)

1P2W(0~1A/5A)	1P3W(0~1A/5A)
	
1P2W(0~333mV)	**1P3W(0~333mV)**
	

Voltage and current wiring

3P3W w/o PT		
3CT(0~1A/5A)	2CT(0~1A/5A)	1CT(0~1A/5A)
		
3CT(0~333mV)	2CT(0~333mV)	1CT(0~333mV)
		
3CT(RC)	2CT(RC)	1CT(RC)
		

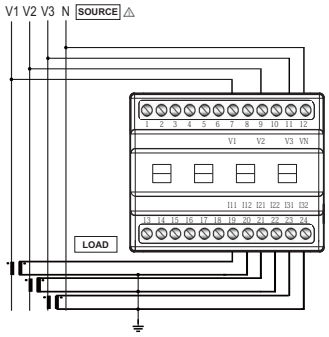
Voltage and current wiring

3P3W2PT		
3CT(0~1A/5A)	2CT(0~1A/5A)	1CT(0~1A/5A)
		
3CT(0~333mV)	2CT(0~333mV)	1CT(0~333mV)
		
3CT(RC)	2CT(RC)	1CT(RC)
		

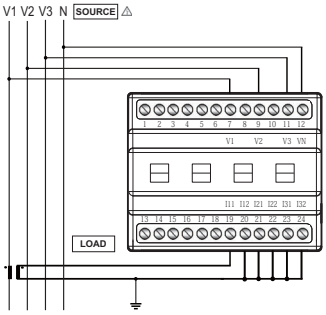
Voltage and current wiring

3P4W w/o PT

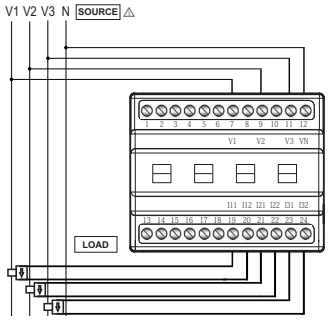
3CT(0~1A/5A)



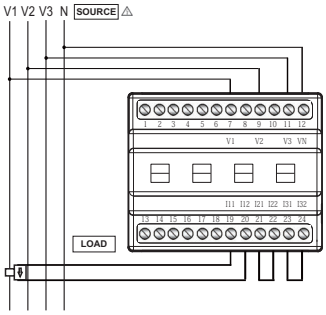
1CT(0~1A/5A)



3CT(0~333mV)

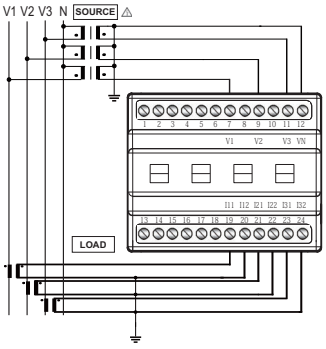


1CT(0~333mV)

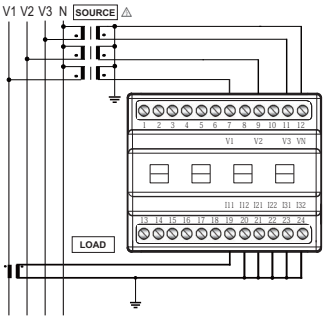


3P4W3PT

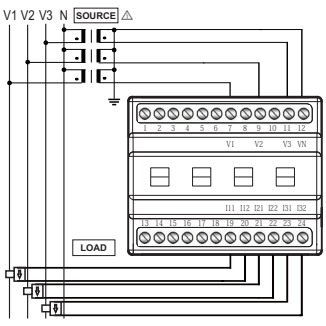
3CT(0~1A/5A)



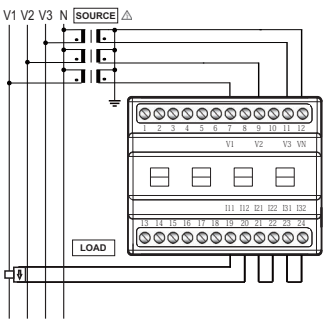
1CT(0~1A/5A)



3CT(0~333mV)

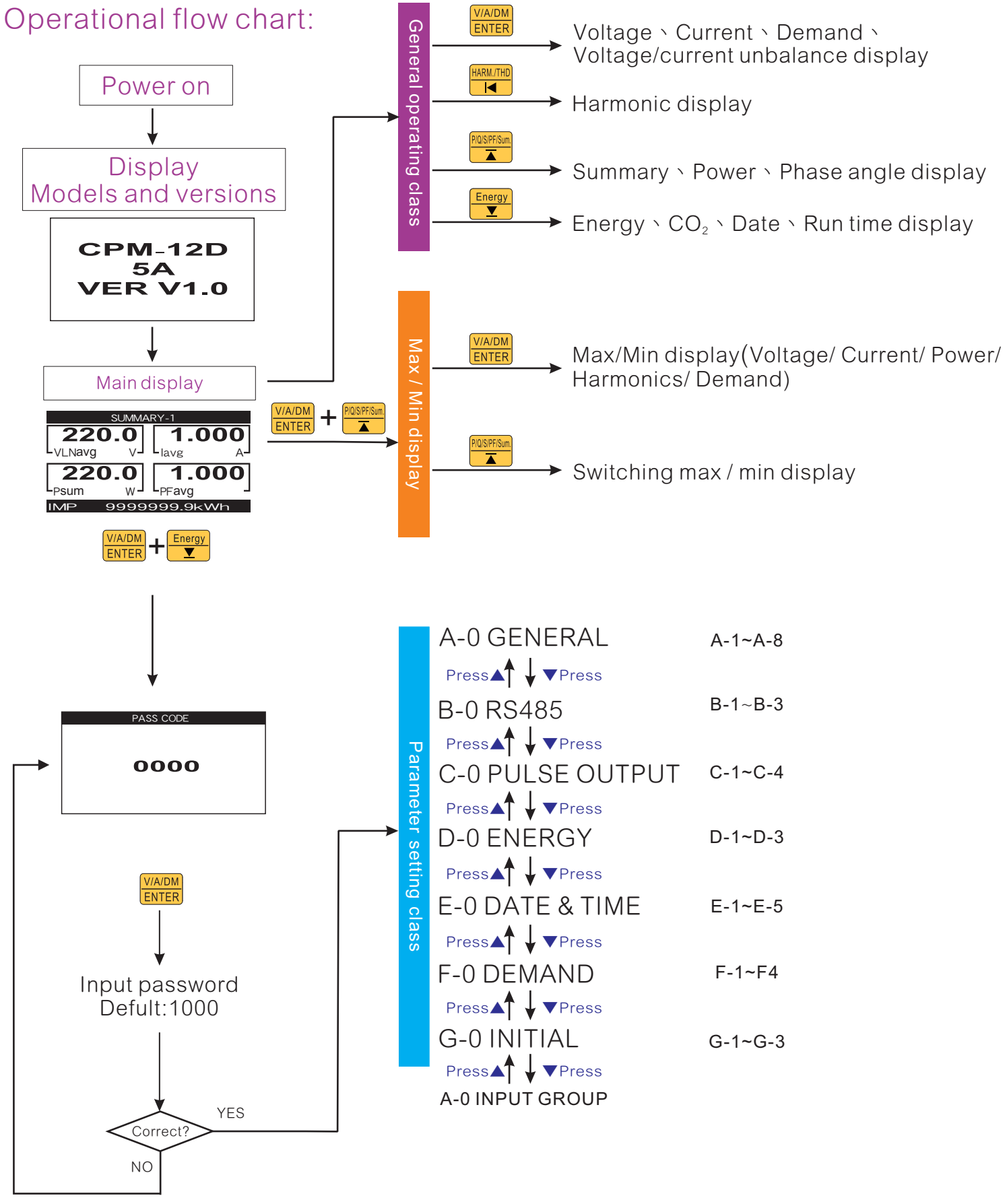


1CT(0~333mV)



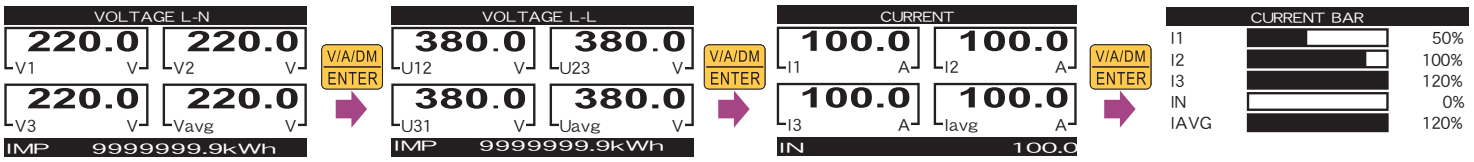
4.Operational Processes

Operational flow chart:



Voltage/Current/Demand display

Press V/A/DM ENTER



Each phase voltage

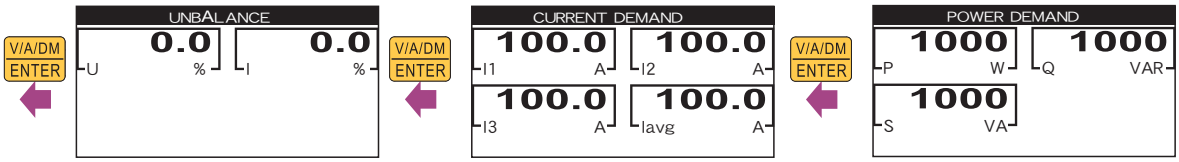
Each line voltage

Current & Neutral current

Current load bar graph

V/A/DM ENTER

Back to each phase voltage



Voltage/ Current unbalance

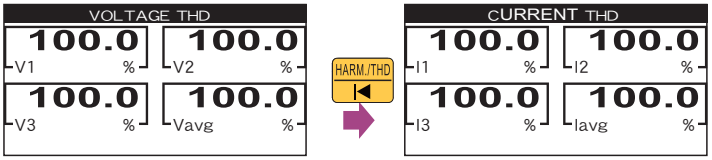
Current demand

Power demand

Total harmonic display

Press HARM./THD

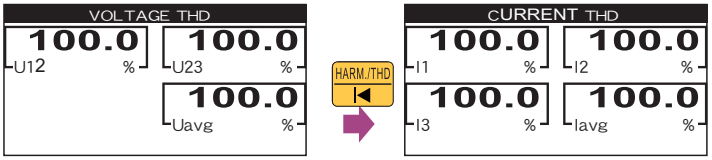
System type: 1P2W/1P3W/ 3P4W1CT/ 3P4W3CT



Each phase voltage harmonic & Average phase voltage harmonic

Current harmonic & Average current harmonic

System type: 3P3W1CT/ 3P3W2CT/ 3P3W3CT/

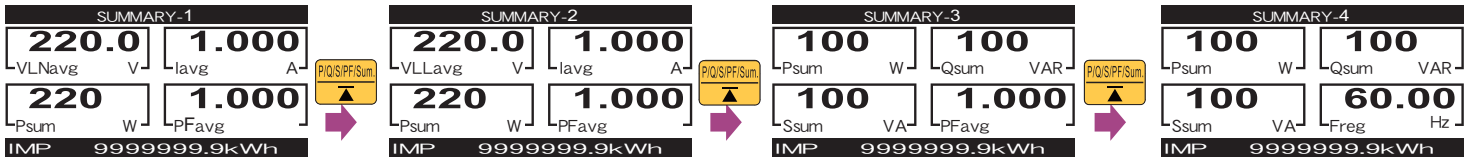


Each line voltage harmonic & Average line voltage harmonic

Current harmonic & Average current harmonic

Summary、Power、Phase angle display

Press P/Q/S/PF/Sum.

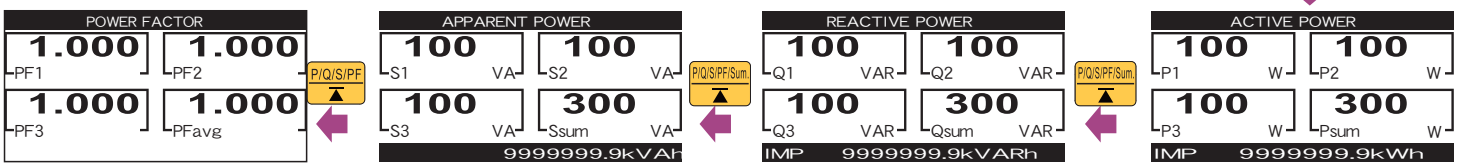


Summary-1
Phase voltage/
Current/ Active
power/ PF/
IMP active energy

Summary-2
Line voltage/
Current/
Active power/ PF/
IMP active energy

Summary-3
Active power/
Reactive power/
Apparent power/ PF/
IMP active energy

Summary-4
Active power/
Reactive power/
Apparent power/
Frequency/
IMP active energy

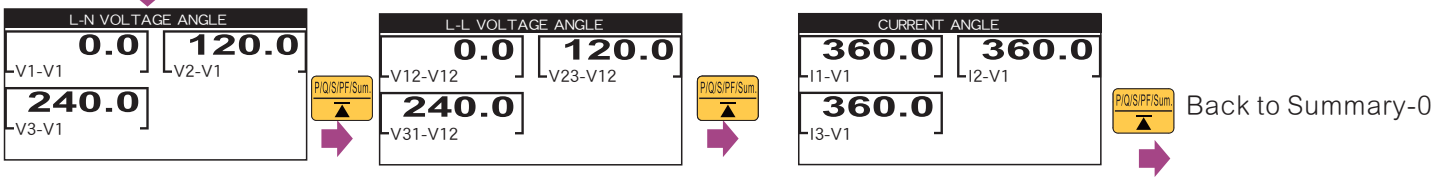


Each phase power
factor/
Average power factor

Each phase
apparent power/
Apparent energy

Each phase reactive
power/
IMP reactive energy

Each phase active
power/
IMP active energy



Phase voltage angle
V1-V1
V2-V1
V3-V1

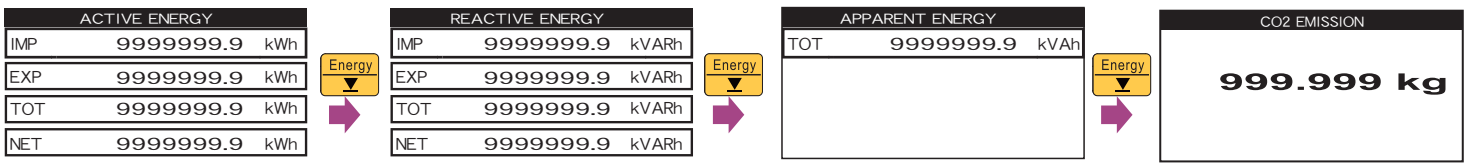
Line voltage angle
V12-V12
V23-V12
V31-V12

Current phase angle
I1-V1(V12)
I2-V1(V12)
I3-V1(V12)

Back to Summary-0

Energy and Time display

Press Energy



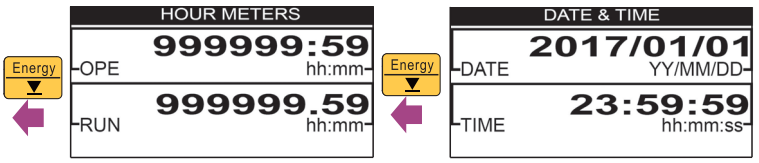
IMP/ EXP/ Total active /
Net active energy

IMP/ EXP/ Total
reactive /
Net reactive energy

Total apparent
energy

CO_2

Back to active energy

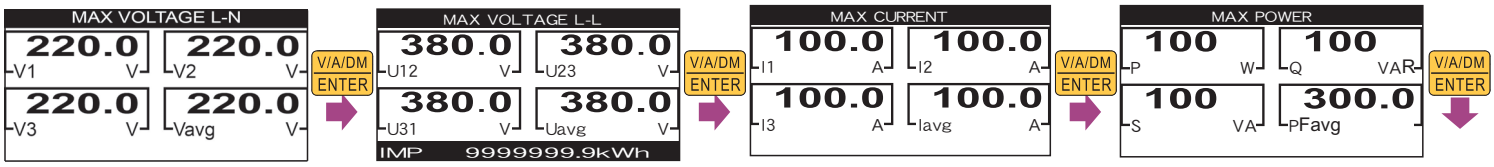


Operation time/
Running time(Time
start at current of
secondary side >1%)

Date and Time

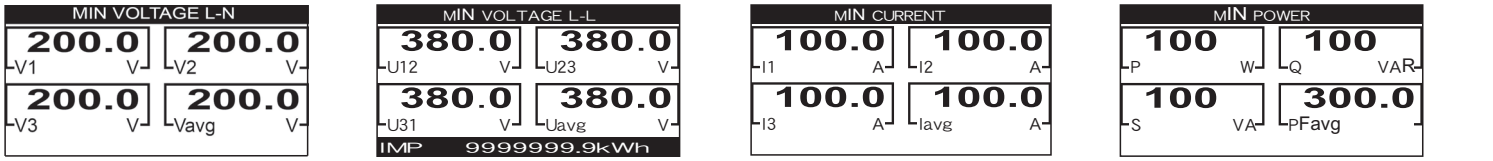
Max/Min display

Press V/A/DM ENTER + P/Q/S/PF/Sum.

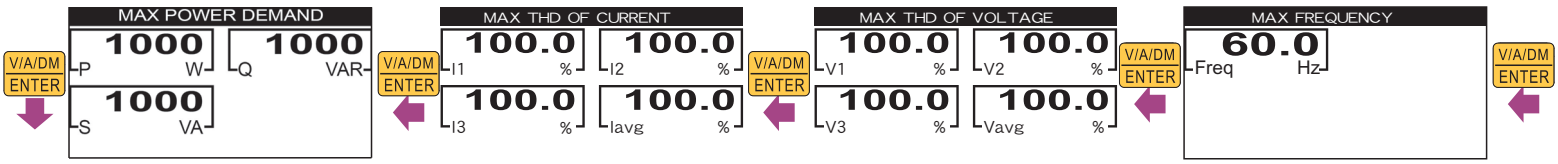


Max phase voltage | Max line voltage | Max current | Max power

P/Q/S/PF/Sum.



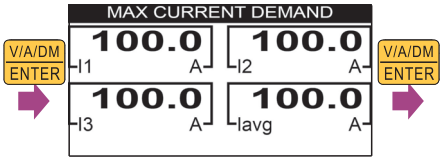
Min phase voltage | Min line voltage | Min current | Min power



Max power demand | Max THD of current | Max THD of voltage | Max frequency

P/Q/S/PF/Sum.

Min power demand | Min THD of current | Min THD of voltage | Min frequency

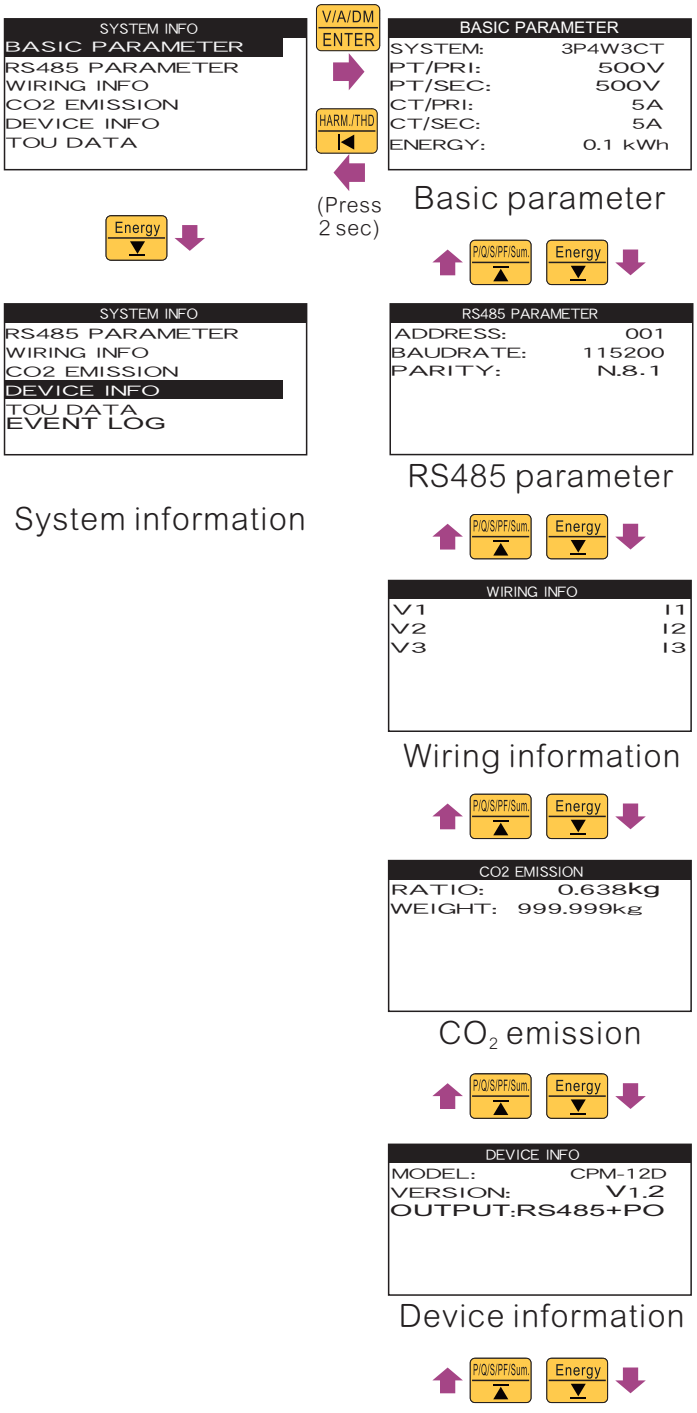


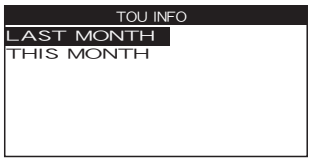
Max current demand

Back to Max phase voltage

System information inquiry

Press HARM./THD + Energy



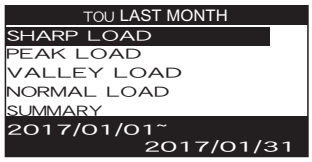


Month selection

V/A/DM ENTER

HARM./THD

(Press 2 sec)

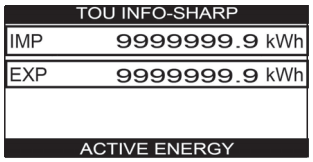


Item selection

V/A/DM ENTER

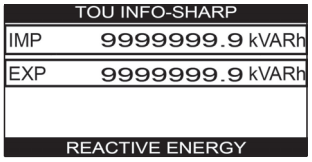
HARM./THD

(Press 2 sec)



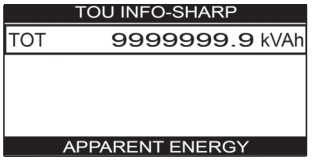
Active energy

Energy



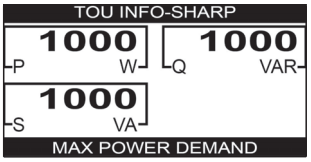
Reactive energy

Energy



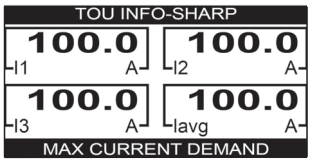
Apparent energy

Energy



Max power demand

Energy



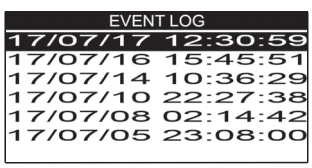
Max current demand

Energy

Back to active energy

※THIS MONTH and LAST MONTH display in the same way

※PEAK、VALLEY、NORMAL、SUMMARY display content is the same as SHARP



Sorting by time EVENT LOG has 16 records

V/A/DM ENTER

HARM./THD

EVENT LOG NO. number According to the location number stored in the 485 table

Key Description

P/Q/S/PF/Sum. Move/Increase

Energy Down/Decrease

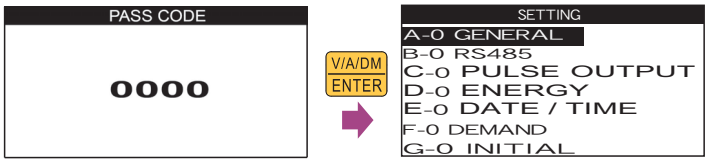
V/A/DM ENTER Into setting or confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu or main display

5.Programming Setting

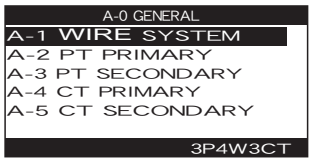
Parameters setting

Press V/A/DM ENTER + Energy



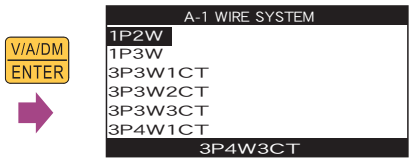
Pass word:1000 Setting item

A-0 General Setting



Setting item

Energy



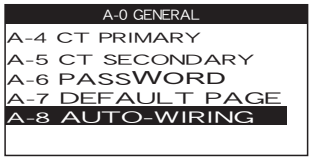
A-1 Wire system setting
1P2W/1P3W/3P3W1CT/
3P3W2CT/3P3W3CT/3P4W1CT/
3P4W3CT

P/Q/S/PF/Sum. Move/Increase

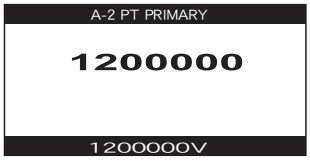
Energy Down/Decrease

V/A/DM ENTER Into setting or confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu



Setting item



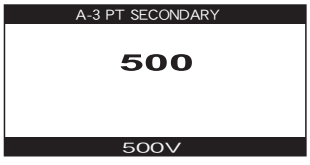
A-2 PT Primary side
voltage setting
100~1200000V

P/Q/S/PF/Sum. Move/Increase

Energy Down/Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu



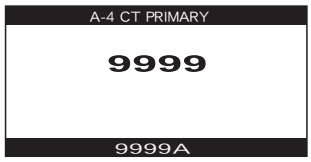
A-3 PT Secondary side
voltage setting
50~500V

P/Q/S/PF/Sum. Move/Increase

Energy Down/Decrease

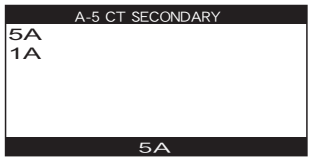
V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu



A-4 Current setting of CT primary side
1~9999A

P/Q/S/PF/Sum. Increase
Energy Decrease
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD Press 2 Sec back to previous menu

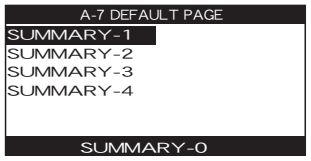


A-5 Current setting of CT second side
5A/1A
※This display is not available at 333mV

P/Q/S/PF/Sum. Move
Energy Down
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD Press 2 Sec back to previous menu

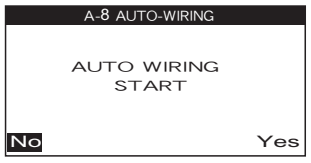
A-6 Password modify
0000~9999

P/Q/S/PF/Sum. Increase
Energy Decrease
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD Press 2 Sec back to previous menu



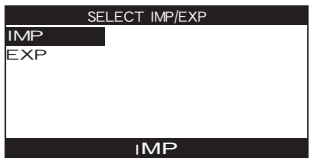
A-7 Main display select
SUMMARY1~4

P/Q/S/PF/Sum. Move
Energy Down
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD Press 2 Sec back to previous menu



A-8 Wire change progress

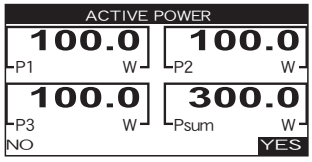
YES
V/A/DM ENTER



Select system input is IMP/EXP

V/A/DM ENTER

Wire change processing



Confirm active power values:
YES/NO

NO

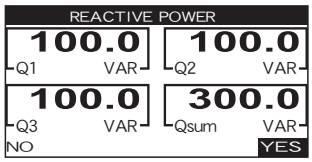
V/A/DM ENTER YES

Auto wiring change condition limit:
3P4W-3CT:VN must be correct and θ <±59°
3P4W-1CT: θ <±59°
3P3W-2CT:V2 must be correct and θ <±59°
3P3W-3CT:V2 must be correct and θ <±59°
1P3W:VN must be correct and θ <±59°
1P2W: θ <±59°
3P3W-1CT:N/A

Wiring change failure
Press Enter to QUIT

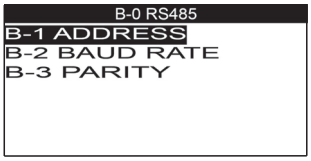
Wiring change complete:
default / SAVE /QUIT

NO
V/A/DM ENTER
YES



Confirm reactive power values:
YES/NO

B-0 RS485 Setting



Setting item

V/A/DM ENTER

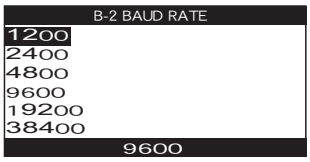
B-1 Device address setting
1~247

P/Q/S/PF/Sum ▲ Increase

Energy ▼ Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu

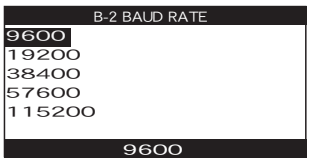


P/Q/S/PF/Sum ▲ Increase

Energy ▼ Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



B-2 Baud rate setting
1200/2400/4800/9600/19200/
38400/57600/115200 bps

B-3 Parity check setting
N.8.1/N.8.2/O.8.1/E.8.1

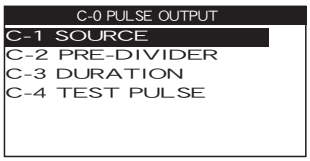
P/Q/S/PF/Sum ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

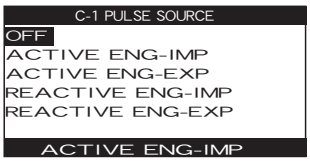
HARM./THD |◀ Press 2 Sec back to previous menu

C-0 Pulse Output Setting



V/A/DM ENTER

Setting item



C-1 Parameters setting of pulse output
OFF/AE.IMP/AE.EXP/RE.IMP/ RE.EXP

P/Q/S/PF/Sum ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu

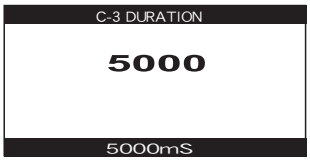
C-2 Divider of pulse output
1~9999次

P/Q/S/PF/Sum ▲ Increase

Energy ▼ Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



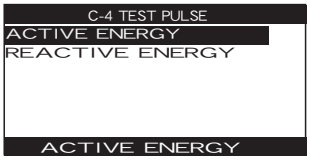
C-3 Pulse width setting:
0~5000(mS)

P/Q/S/PF/Sum ▲ Increase

Energy ▼ Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



C-4 Test pulse setting
Active energy/Reactive energy

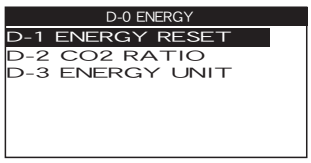
P/Q/S/PF/Sum ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

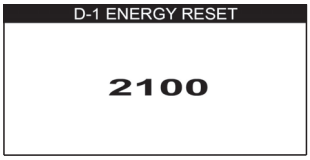
HARM./THD |◀ Press 2 Sec back to previous menu

D-0 Energy Setting



Setting item

V/A/DM ENTER



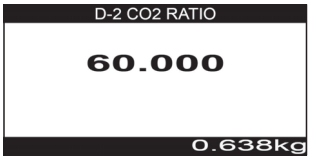
D-1 Reset energy
2100

P/Q/S/PF/Sum. Increase

Energy Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu



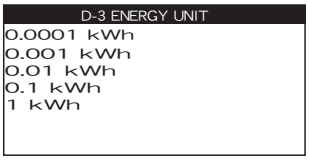
D-2 Total CO_2 weight of energy
00.000~60.000kg

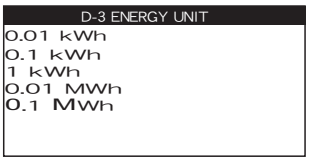
P/Q/S/PF/Sum. Increase

Energy Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu





D-3 Energy unit setting

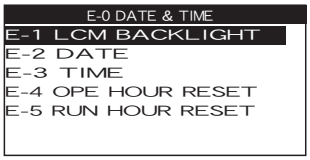
P/Q/S/PF/Sum. Move

Energy Down

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD Press 2 Sec back to previous menu

E-0 Date & Time Setting

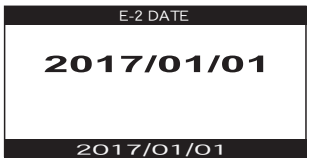


Setting item

V/A/DM ENTER

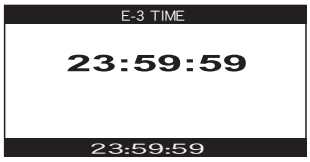
E-1 LCM backlight delay time setting
0~15Min
0 is always ON

P/Q/S/PF/Sum. ▲ Increase
Energy ▼ Decrease
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD |◀ Press 2 Sec back to previous menu



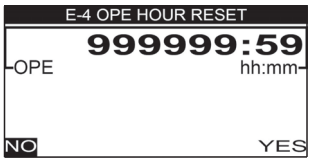
E-2 Date setting

P/Q/S/PF/Sum. ▲ Increase
Energy ▼ Decrease
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD |◀ Press 2 Sec back to previous menu



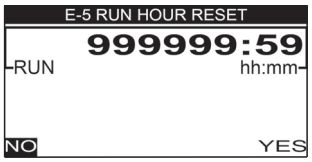
E-3 Time setting

P/Q/S/PF/Sum. ▲ Increase
Energy ▼ Decrease
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD |◀ Press 2 Sec back to previous menu



E-4 Reset operation time
NO/YES

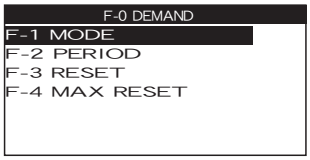
P/Q/S/PF/Sum. ▲ Move
Energy ▼ Down
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD |◀ Press 2 Sec back to previous menu



E-5 Reset running time
NO/YES

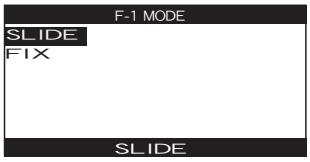
P/Q/S/PF/Sum. ▲ Move
Energy ▼ Down
V/A/DM ENTER Confirm setting and back to previous menu
HARM./THD |◀ Press 2 Sec back to previous menu

F-0 Demand Setting



Setting item

V/A/DM ENTER



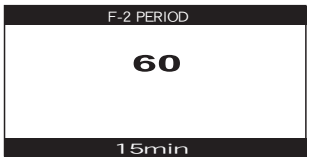
F-1 Calculation method:
SLIDE/FIX

P/Q/S/PF/Sum. ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



F-2 Demand interval time setting:
1~60Min

P/Q/S/PF/Sum. ▲ Increase

Energy ▼ Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu

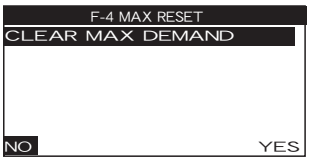
F-3 Reset demand:
DEMAND

P/Q/S/PF/Sum. ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



F-4 Reset Maximum demand:
MAX DEMAND

P/Q/S/PF/Sum. ▲ Move

Energy ▼ Down

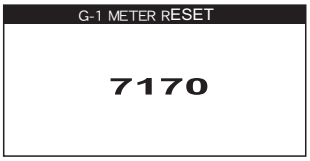
V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu

G-0 Initial

Setting item

V/A/DM ENTER



G-1 Meter reset

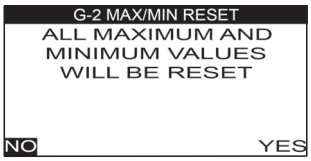
After inputting 7170, it will reboot and return to default value, but the adjusted value will be retained.

P/Q/S/PF/Sum. ▲ Increase

Energy ▼ Decrease

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



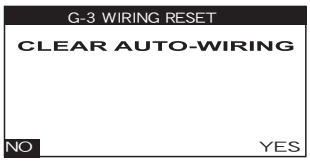
G-2 Reset MAX/MIN value

P/Q/S/PF/Sum. ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu



G-3 Clear auto-wiring

P/Q/S/PF/Sum. ▲ Move

Energy ▼ Down

V/A/DM ENTER Confirm setting and back to previous menu

HARM./THD |◀ Press 2 Sec back to previous menu

6.RS485 Communication Table

System setting (Function code : 03h , 06h , 10h)

Input group

Parameter	Address	Range	Description	Default	Property
WIRE	0000h	0~6	Metering system type 0: 1P2W 1: 1P3W 2: 3P3W1CT 3: 3P3W2CT 4: 3P3W3CT 5:3P4W1CT 6: 3P4W3CT	6	R/W
PT PRI	0001h	100 ~ 1200000V	PT Primary side voltage(High Word)	500	R/W
	0002h		PT Primary side voltage(Low Word)		R/W
PT SEC	0003h	50~500V	PT Secondary side voltage	500	R/W
CT PRI	0004h	5~9999A (1~9999A)	CT Primary side current	5	R/W
PASS WORD	0005h	0000~9999	Password setting	1000	R/W
DISPLAY	0006h	0~3	Main summary display select 0: SUMMARY-1 1: SUMMARY-2 2: SUMMARY-3 3: SUMMARY-4	0	R/W
CT SEC	0007h	0~2	CT Secondary side current 0: 5A 1: 1A 2: 333mV(Only for reading, not set)	0	R/W
MAX-MIN Reset	0008h	0 or 55h	Reset all max/min values 0: NO 55h: YES	0	R/W
Data Config	0009h	0~3	High byte and low byte setting bit0: Floating data bit1: General data 0: HIGH WORD ，1: LOW WORD	0	R/W

RS485 communication setting

Parameter	Address	Range	Description	Default	Property
RS485 ADDR	002Ah	1~247	Device address setting	1	R/W
RS485 BAUD	002Bh	0~7	Baud rate 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 5: 38400 6: 57600 7: 115200 bps	3	R/W
RS485 PARI	002Ch	0~3	Parity Check 0: N.8.1 1: N.8.2 2: O.8.1 3: E.8.1	1	R/W

Pulse output setting

Parameter	Address	Range	Description	Default	Property
PLS SLCT	0037h	0~4	Parameter setting of pulse output 0: OFF 1: AE.IMP 2: AE.EXP 3: RE.IMP 4: RE.EXP	1	R/W
PLS DIVE	0038h	1~9999	Divider of pulse output	1	R/W
PLS HIGH	0039h	0~5000 (mS)	Pulse width setting ; 0 is duty cycle 50%	0	R/W

Energy setting

Parameter	Address	Range	Description	Default	Property
TOAL RST	0048h	0 or 55h	Reset Active, Reactive, Apparent energy and CO_2 values 0: NO 55h: YES	0	R/W
CO_2 RATE	004Ah	00.000~60.000kg	Rate setting of CO_2 weight per kWh	638	R/W
Energy Unit	004Bh	0~6	0: 0.0001kWh 1: 0.001kWh 2: 0.01kWh 3: 0.1kWh 4: 1kWh 5: 0.01MWh 6: 0.1MWh	3	R/W

Time setting

Parameter	Address	Range	Description	Default	Property
BACK LIGH	004Eh	0~15Min	LCM backlight delay time setting ; 0 is always ON	1	R/W
Year	004Fh	2000~2099	Year	2017	R/W
Month	0050h	1~12	Month	1	R/W
Day	0051h	1~31	Day	1	R/W
Hour	0052h	0~23	Hour	0	R/W
Minute	0053h	0~59	Minute	0	R/W
Second	0054h	0~59	Second	0	R/W
OPER HOUR RST	0055h	0 or 55h	Reset operation time 0: NO 55h: YES	0	R/W
RUN HOUR RST	0056h	0 or 55h	Reset operation time 0: NO 55h: YES	0	R/W

Demand setting

Parameter	Address	Range	Description	Default	Property
DEMD MODE	005Bh	0~1	Calculation method: 0: SLIDE 1: FIX	0	R/W
DEMD TIME	005Ch	1~60Min	Demand interval time setting	15	R/W
DEMD RST	005Dh	0 or 55h	Reset deman values 0: NO 55h: YES	0	R/W
MAX DEMD RST	005Eh	0 or 55h	Reset max demand values 0: NO 55h: YES	0	R/W

Initialization setting

Parameter	Address	Range	Description	Default	Property
INIT	0062h	0000~9999	Initialization code:7170	7170	R/W

Event logging setting (Code: 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
Event Log	0080h	0~1	Event logging function enable 0: OFF 1: ON	0	R/W
Event Log ch	0081h	0~65535	Bit0: 1st event logging~~Bit15: 16th event logging 0: OFF 1: ON	0	R/W
Event Log ch 1 Parameter SLCT	0082h	0~35	Parameter: 0: FREQ 1: U1 2: U2 3: U3 4: ULN.AVG 5: U12 6: U23 7: U31 8: ULL.AVG 9: I1 10: I2 11: I3 12: I.AVG 13: IN 14: P-1 15: P-2 16: P-3 17: P.SUM 18: Q-1 19: Q-2 20: Q-3 21: Q.SUM 22: S-1 23: S-2 24: S-3 25: S.SUM 26: Pf1 27: PF2 28: PF3 29: PF.AVG 30: P.DM 31: Q.DM 32: S.DM 33: I.AVG.DM 34: Uunbl 35: Iunbl	12	R/W
Event Log ch 1 Compare	0083h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 1 SP	0084h	According to parameter range	Set point (High Word)	1000	R/W
	0085h		Set point (Low Word)		
Event Log ch 1 delay time	0086h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 2 Parameter SLCT	0087h	0~35	Refer to ch1	12	R/W
Event Log ch 2 Compare	0088h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 2 SP	0089h	According to parameter range	Set point (High Word)	1000	R/W
	008Ah		Set point (Low Word)		
Event Log ch 2 delay time	008Bh	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 3 Parameter SLCT	008Ch	0~35	Refer to ch1	12	R/W
Event Log ch 3 Compare	008Dh	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 3 SP	008Eh	According to parameter range	Set point (High Word)	1000	R/W
	008Fh		Set point (Low Word)		
Event Log ch 3 delay time	0090h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 4 Parameter SLCT	0091h	0~35	Refer to ch1	12	R/W
Event Log ch 4 Compare	0092h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 4 SP	0093h	According to parameter range	Set point (High Word)	1000	R/W
	0094h		Set point (Low Word)		
Event Log ch 4 delay time	0095h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 5 Parameter SLCT	0096h	0~35	Refer to ch1	12	R/W
Event Log ch 5 Compare	0097h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 5 SP	0098h	According to parameter range	Set point (High Word)	1000	R/W
	0099h		Set point (Low Word)		
Event Log ch 5 delay time	009Ah	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 6 Parameter SLCT	009Bh	0~35	Refer to ch1	12	R/W
Event Log ch 6 Compare	009Ch	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 6 SP	009Dh	According to parameter range	Set point (High Word)	1000	R/W
	009Eh		Set point (Low Word)		
Event Log ch 6 delay time	009Fh	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 7 Parameter SLCT	00A0h	0~35	Refer to ch1	12	R/W
Event Log ch 7 Compare	00A1h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 7 SP	00A2h	According to parameter range	Set point (High Word)	1000	R/W
	00A3h		Set point (Low Word)		
Event Log ch 7 delay time	00A4h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 8 Parameter SLCT	00A5h	0~35	Refer to ch1	12	R/W
Event Log ch 8 Compare	00A6h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 8 SP	00A7h	According to parameter range	Set point (High Word)	1000	R/W
	00A8h		Set point (Low Word)		
Event Log ch 8 delay time	00A9h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 9 Parameter SLCT	00AAh	0~35	Refer to ch1	12	R/W
Event Log ch 9 Compare	00ABh	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W

Parameter	Address	Range	Description	Default	Property
Event Log ch 9 SP	00ACh	According to parameter range	Set point (High Word)	1000	R/W
	00ADh		Set point (Low Word)		
Event Log ch 9 delay time	00AEh	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 10 Parameter SLCT	00AFh	0~35	Refer to ch1	12	R/W
Event Log ch 10 Compare	00B0h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 10 SP	00B1h	According to parameter range	Set point (High Word)	1000	R/W
	00B2h		Set point (Low Word)		
Event Log ch 10 delay time	00B3h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 11 Parameter SLCT	00B4h	0~35	Refer to ch1	12	R/W
Event Log ch 11 Compare	00B5h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 11 SP	00B6h	According to parameter range	Set point (High Word)	1000	R/W
	00B7h		Set point (Low Word)		
Event Log ch 11 delay time	00B8h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 12 Parameter SLCT	00B9h	0~35	Refer to ch1	12	R/W
Event Log ch 12 Compare	00BAh	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 12 SP	00BBh	According to parameter range	Set point (High Word)	1000	R/W
	00BCh		Set point (Low Word)		
Event Log ch 12 delay time	00BDh	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 13 Parameter SLCT	00BEh	0~35	Refer to ch1	12	R/W
Event Log ch 13 Compare	00BFh	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 13 SP	00C0h	According to parameter range	Set point (High Word)	1000	R/W
	00C1h		Set point (Low Word)		
Event Log ch 13 delay time	00C2h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 14 Parameter SLCT	00C3h	0~35	Refer to ch1	12	R/W
Event Log ch 14 Compare	00C4h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 14 SP	00C5h	According to parameter range	Set point (High Word)	1000	R/W
	00C6h		Set point (Low Word)		
Event Log ch 14 delay time	00C7h	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 15 Parameter SLCT	00C8h	0~35	Refer to ch1	12	R/W
Event Log ch 15 Compare	00C9h	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 15 SP	00CAh	According to parameter range	Set point (High Word)	1000	R/W
	00CBh		Set point (Low Word)		
Event Log ch 15 delay time	00CCh	0~3000	Delay time (x10mS)	0	R/W
Event Log ch 16 Parameter SLCT	00CDh	0~35	Refer to ch1	12	R/W
Event Log ch 16 Compare	00CEh	0~2	0: more than(>) 1: equal(=) 2: less than(<)	0	R/W
Event Log ch 16 SP	00CFh	According to parameter range	Set point (High Word)	1000	R/W
	00D0h		Set point (Low Word)		
Event Log ch 16 delay time	00D1h	0~3000	Delay time (x10mS)	0	R/W
Even Log Clear	00D2h	0 or 55h	Clear all event logs 0: None 55h: Reset	0	R/W

Metering parameters reading (Code : 03h)

Parameter	Address	Range	Description	Default	Property
FREQ	0130h	45.00~65.00Hz	Frequency		R
U1	0131h	0.0 ~1200000.0V	Phase1 voltage (High Word)		R
	0132h		Phase1 voltage (Low Word)		R
U2	0133h	0.0 ~1200000.0V	Phase2 voltage (High Word)		R
	0134h		Phase2 voltage (Low Word)		R
U3	0135h	0.0 ~1200000.0V	Phase3 voltage (High Word)		R
	0136h		Phase3 voltage (Low Word)		R
ULN.AVG	0137h	0.0 ~1200000.0V	Average phase voltage (High Word)		R
	0138h		Average phase voltage (Low Word)		R
U12	0139h	0.0 ~1200000.0V	Phase1 line voltage (High Word)		R
	013Ah		Phase1 line voltage (Low Word)		R
U23	013Bh	0.0 ~1200000.0V	Phase2 line voltage (High Word)		R
	013Ch		Phase2 line voltage (Low Word)		R
U31	013Dh	0.0 ~1200000.0V	Phase3 line voltage (High Word)		R
	013Eh		Phase3 line voltage (Low Word)		R
ULL.AVG	013Fh	0.0 ~1200000.0V	Average line voltage (High Word)		R
	0140h		Average line voltage (Low Word)		R
I1	0141h	0.000~9999.000A	I1 current (High Word)		R
	0142h		I1 current (Low Word)		R
I2	0143h	0.000~9999.000A	I2 current (High Word)		R
	0144h		I2 current (Low Word)		R
I3	0145h	0.000~9999.000A	I3 current (High Word)		R
	0146h		I3 current (Low Word)		R
I.AVG	0147h	0.000~9999.000A	Average current (High Word)		R
	0148h		Average current (Low Word)		R
IN	0149h	0.000~9999.000A	Neutral current (High Word)		R
	014Ah		Neutral current (Low Word)		R
P-1	014Bh	-999999999~999999999W	Phase1 active power (High Word)		R
	014Ch		Phase1 active power (Low Word)		R
P-2	014Dh	-999999999~999999999W	Phase2 active power (High Word)		R
	014Eh		Phase2 active power (Low Word)		R
P-3	014Fh	-999999999~999999999W	Phase3 active power (High Word)		R
	0150h		Phase3 active power (Low Word)		R
P.SUM	0151h	-999999999~999999999W	Total active power (High Word)		R
	0152h		Total active power (Low Word)		R
Q-1	0153h	-999999999~999999999VAR	Phase1 reactive power (High Word)		R
	0154h		Phase1 reactive power (Low Word)		R
Q-2	0155h	-999999999~999999999VAR	Phase2 reactive power (High Word)		R
	0156h		Phase2 reactive power (Low Word)		R
Q-3	0157h	-999999999~999999999VAR	Phase3 reactive power (High Word)		R
	0158h		Phase3 reactive power (Low Word)		R
Q.SUM	0159h	-999999999~999999999VAR	Total reactive power (High Word)		R
	015Ah		Total reactive power (Low Word)		R
S-1	015Bh	0~999999999VA	Phase1 apparent power (High Word)		R
	015Ch		Phase1 apparent power (Low Word)		R
S-2	015Dh	0~999999999VA	Phase2 apparent power (High Word)		R
	015Eh		Phase2 apparent power (Low Word)		R
S-3	015Fh	0~999999999VA	Phase3 apparent power (High Word)		R
	0160h		Phase3 apparent power (Low Word)		R
S.SUM	0161h	0~999999999VA	Total apparent power (High Word)		R
	0162h		Total apparent power (Low Word)		R
PF1	0163h	-0.020~-/+1.000~0.020	Phase1 power factor		R
PF2	0164h	-0.020~-/+1.000~0.020	Phase2 power factor		R
PF3	0165h	-0.020~-/+1.000~0.020	Phase3 power factor		R
PF.AVG	0166h	-0.020~-/+1.000~0.020	Average Power Factor		R
Uunbl	0167h	0~300.0%	Voltage unbalance		R
Iunbl	0168h	0~300.0%	Current unbalance		R
Load Type	0169h	R: 82 L: 76 C: 67	R: Resistive, L: Inductive , C: Capacitive		R
P.DM.	016Ah	-999999999~999999999W	Total active power demand (High Word)		R
	016Bh		Total active power demand (Low Word)		R
Q.DM.	016Ch	-999999999~999999999VAR	Total reactive power demand (High Word)		R
	016Dh		Total reactive power demand (Low Word)		R
S.DM.	016Eh	0~999999999VA	Total apparent power demand (High Word)		R
	016Fh		Total apparent power demand (Low Word)		R
I1.DM.	0170h	0.000~9999.000A	I1 current demand (High Word)		R
	0171h		I1 current demand (Low Word)		R
I2.DM.	0172h	0.000~9999.000A	I2 current demand (High Word)		R
	0173h		I2 current demand (Low Word)		R
I3.DM.	0174h	0.000~9999.000A	I3 current demand (High Word)		R
	0175h		I3 current demand (Low Word)		R
I.AVG.DM.	0176h	0.000~9999.000A	Average current demand (High Word)		R
	0177h		Average current demand (Low Word)		R

Parameter	Address	Range	Description	Default	Property
kWh-IMP	0181h	0.0~9999999.9kWh	Import active energy (High Word)		R
	0182h		Import active energy (Low Word)		R
kWh-Exp	0183h	0.0~9999999.9kWh	Export active energy (High Word)		R
	0184h		Export active energy (Low Word)		R
kWh-Total	0185h	0.0~9999999.9kWh	Total active energy (High Word)		R
	0186h		Total active energy (Low Word)		R
kWh-Net	0187h	-999999.9~9999999.9kWh	Net active energy (High Word)		R
	0188h		Net active energy (Low Word)		R
kVARh-IMP	0189h	0.0~9999999.9kVARh	Import reactive energy (High Word)		R
	018Ah		Import reactive energy (Low Word)		R
kVARh-Exp	018Bh	0.0~9999999.9kVARh	Export reactive energy (High Word)		R
	018Ch		Export reactive energy (Low Word)		R
kVARh-Total	018Dh	0.0~9999999.9kVARh	Total reactive energy (High Word)		R
	018Eh		Total reactive energy (Low Word)		R
kVARh-Net	018Fh	-999999.9~9999999.9kVARh	Net reactive energy (High Word)		R
	0190h		Net reactive energy (Low Word)		R
kVAh-Total	0191h	0.0~9999999.9kVAh	Total apparent energy (High Word)		R
	0192h		Total apparent energy (Low Word)		R
Reserved	0193h		Reserved		R
Reserved	0194h		Reserved		R
CO_2	0195h	0.000~99999.999kg	Total CO_2 weight of energy (High Word)		R
	0196h		Total CO_2 weight of energy (Low Word)		R
OPERATING HOUR	0198h	0~59999999Min	Operation time (High Word)		R
	0199h		Operation time (Low Word)		R
RUN HOUR	019Ah	0~59999999Min	Running time (High Word)		R
	019Bh		Running time (Low Word)		R

Parameter	Address	Range	Description	Default	Property
U1(U12).THD	029Fh	0.0~100.0%	U1(U12) total harmonic of voltage		R
U2(U23).THD	02A0h	0.0~100.0%	U2(U23) total harmonic of voltage		R
U3(U31).THD	02A1h	0.0~100.0%	U3(U31) total harmonic of voltage		R
UAVG.THD	02A2h	0.0~100.0%	Average total harmonic of voltage		R
I1.THD	02A3h	0.0~100.0%	I1 total harmonic of current		R
I2.THD	02A4h	0.0~100.0%	I2 total harmonic of current		R
I3.THD	02A5h	0.0~100.0%	I3 total harmonic of current		R
IAVG.THD	02A6h	0.0~100.0%	Average total harmonic of current		R

Max/Min values (Code : 03h)

Parameter	Address	Range	Description	Default	Property
U1.MAX	02A7h	0.0 ~ 1200000.0V	U1 Maximum phase voltage (High Word)		R
	02A8h		U1 Maximum phase voltage (Low Word)		R
Year	02A9h	2000~2099	Year		R
Month	02AAh	1~12	Month		R
Day	02ABh	1~31	Day		R
Hour	02ACh	0~23	Hour		R
Minute	02ADh	0~59	Minute		R
Second	02AEh	0~59	Second		R
U1.MIN	02AFh	0.0 ~ 1200000.0V	U1 Minimum phase voltage and time stamp		R
	02B0h				R
Year	02B1h	2000~2099			R
Month	02B2h	1~12			R
Day	02B3h	1~31			R
Hour	02B4h	0~23			R
Minute	02B5h	0~59			R
Second	02B6h	0~59			R
U2.MAX	02B7h	0.0 ~ 1200000.0V	U2 Maximum phase voltage and time stamp		R
	02B8h				R
Year	02B9h	2000~2099			R
Month	02BAh	1~12			R
Day	02BBh	1~31			R
Hour	02BCh	0~23			R
Minute	02BDh	0~59			R
Second	02BEh	0~59			R
U2.MIN	02BFh	0.0 ~ 1200000.0V	U2 Minimum phase voltage and time stamp		R
	02C0h				R
Year	02C1h	2000~2099			R
Month	02C2h	1~12			R
Day	02C3h	1~31			R
Hour	02C4h	0~23			R
Minute	02C5h	0~59			R
Second	02C6h	0~59			R
U3.MAX	02C7h	0.0 ~ 1200000.0V	U3 Maximum phase voltage and time stamp		R
	02C8h				R
Year	02C9h	2000~2099			R
Month	02CAh	1~12			R
Day	02CBh	1~31			R
Hour	02CCh	0~23			R
Minute	02CDh	0~59			R
Second	02CEh	0~59			R
U3.MIN	02CFh	0.0 ~ 1200000.0V	U3 Minimum phase voltage and time stamp		R
	02D0h				R
Year	02D1h	2000~2099			R
Month	02D2h	1~12			R
Day	02D3h	1~31			R
Hour	02D4h	0~23			R
Minute	02D5h	0~59			R
Second	02D6h	0~59			R
ULN.AVG.MAX	02D7h	0.0 ~ 1200000.0V	Maximum average phase voltage and time stamp		R
	02D8h				R
Year	02D9h	2000~2099			R
Month	02DAh	1~12			R
Day	02DBh	1~31			R
Hour	02DCh	0~23			R
Minute	02DDh	0~59			R
Second	02DEh	0~59			R
ULN.AVG.MIN	02DFh	0.0 ~ 1200000.0V	Minimum average phase voltage and time stamp		R
	02E0h				R
Year	02E1h	2000~2099			R
Month	02E2h	1~12			R
Day	02E3h	1~31			R
Hour	02E4h	0~23			R
Minute	02E5h	0~59			R
Second	02E6h	0~59			R

Parameter	Address	Range	Description	Default	Property
U12.MAX	02E7h	0.0 ~ 1200000.0V	U12 Maximum line voltage and time stamp		R
	02E8h				R
Year	02E9h	2000~2099			R
Month	02EAh	1~12			R
Day	02EBh	1~31			R
Hour	02ECh	0~23			R
Minute	02EDh	0~59			R
Second	02EEh	0~59			R
U12.MIN	02EFh	0.0 ~ 1200000.0V	U12 Minimum line voltage and time stamp		R
	02F0h				R
Year	02F1h	2000~2099			R
Month	02F2h	1~12			R
Day	02F3h	1~31			R
Hour	02F4h	0~23			R
Minute	02F5h	0~59			R
Second	02F6h	0~59			R
U23.MAX	02F7h	0.0 ~ 1200000.0V	U23 Maximum line voltage and time stamp		R
	02F8h				R
Year	02F9h	2000~2099			R
Month	02FAh	1~12			R
Day	02FBh	1~31			R
Hour	02FCh	0~23			R
Minute	02FDh	0~59			R
Second	02FEh	0~59			R
U23.MIN	02FFh	0.0 ~ 1200000.0V	U23 Minimum line voltage and time stamp		R
	0300h				R
Year	0301h	2000~2099			R
Month	0302h	1~12			R
Day	0303h	1~31			R
Hour	0304h	0~23			R
Minute	0305h	0~59			R
Second	0306h	0~59			R
U31.MAX	0307h	0.0 ~ 1200000.0V	U31 Maximum line voltage and time stamp		R
	0308h				R
Year	0309h	2000~2099			R
Month	030Ah	1~12			R
Day	030Bh	1~31			R
Hour	030Ch	0~23			R
Minute	030Dh	0~59			R
Second	030Eh	0~59			R
U31.MIN	030Fh	0.0 ~ 1200000.0V	U31 Minimum line voltage and time stamp		R
	0310h				R
Year	0311h	2000~2099			R
Month	0312h	1~12			R
Day	0313h	1~31			R
Hour	0314h	0~23			R
Minute	0315h	0~59			R
Second	0316h	0~59			R
ULL.AVG.MAX	0317h	0.0 ~ 1200000.0V	Maximum average line voltage and time stamp		R
	0318h				R
Year	0319h	2000~2099			R
Month	031Ah	1~12			R
Day	031Bh	1~31			R
Hour	031Ch	0~23			R
Minute	031Dh	0~59			R
Second	031Eh	0~59			R
ULL.AVG.MIN	031Fh	0.0 ~ 1200000.0V	Minimum average line voltage and time stamp		R
	0320h				R
Year	0321h	2000~2099			R
Month	0322h	1~12			R
Day	0323h	1~31			R
Hour	0324h	0~23			R
Minute	0325h	0~59			R
Second	0326h	0~59			R

Parameter	Address	Range	Description	Default	Property
I1.MAX	0327h	0.000~9999.000A	I1 maximum current and time stamp		R
	0328h				R
Year	0329h	2000~2099			R
Month	032Ah	1~12			R
Day	032Bh	1~31			R
Hour	032Ch	0~23			R
Minute	032Dh	0~59			R
Second	032Eh	0~59			R
I1.MIN	032Fh	0.000~9999.000A	I1 minimum current and time stamp		R
	0330h				R
Year	0331h	2000~2099			R
Month	0332h	1~12			R
Day	0333h	1~31			R
Hour	0334h	0~23			R
Minute	0335h	0~59			R
Second	0336h	0~59			R
I2.MAX	0337h	0.000~9999.000A	I2 maximum current and time stamp		R
	0338h				R
Year	0339h	2000~2099			R
Month	033Ah	1~12			R
Day	033Bh	1~31			R
Hour	033Ch	0~23			R
Minute	033Dh	0~59			R
Second	033Eh	0~59			R
I2.MIN	033Fh	0.000~9999.000A	I2 minimum current and time stamp		R
	0340h				R
Year	0341h	2000~2099			R
Month	0342h	1~12			R
Day	0343h	1~31			R
Hour	0344h	0~23			R
Minute	0345h	0~59			R
Second	0346h	0~59			R
I3.MAX	0347h	0.000~9999.000A	I3 maximum current and time stamp		R
	0348h				R
Year	0349h	2000~2099			R
Month	034Ah	1~12			R
Day	034Bh	1~31			R
Hour	034Ch	0~23			R
Minute	034Dh	0~59			R
Second	034Eh	0~59			R
I3.MIN	034Fh	0.000~9999.000A	I3 minimum current and time stamp		R
	0350h				R
Year	0351h	2000~2099			R
Month	0352h	1~12			R
Day	0353h	1~31			R
Hour	0354h	0~23			R
Minute	0355h	0~59			R
Second	0356h	0~59			R
I.AVG.MAX	0357h	0.000~9999.000A	Maximum average current and time stamp		R
	0358h				R
Year	0359h	2000~2099			R
Month	035Ah	1~12			R
Day	035Bh	1~31			R
Hour	035Ch	0~23			R
Minute	035Dh	0~59			R
Second	035Eh	0~59			R
I.AVG.MIN	035Fh	0.000~9999.000A	Minimum average current and time stamp		R
	0360h				R
Year	0361h	2000~2099			R
Month	0362h	1~12			R
Day	0363h	1~31			R
Hour	0364h	0~23			R
Minute	0365h	0~59			R
Second	0366h	0~59			R

Parameter	Address	Range	Description	Default	Property
P-1.MAX	0367h	-999999999~999999999W	P-1 maximum active power and time stamp		R
	0368h				R
Year	0369h	2000~2099			R
Month	036Ah	1~12			R
Day	036Bh	1~31			R
Hour	036Ch	0~23			R
Minute	036Dh	0~59			R
Second	036Eh	0~59			R
P-1.MIN	036Fh	-999999999~999999999W	P-1 minimum active power and time stamp		R
	0370h				R
Year	0371h	2000~2099			R
Month	0372h	1~12			R
Day	0373h	1~31			R
Hour	0374h	0~23			R
Minute	0375h	0~59			R
Second	0376h	0~59			R
P-2.MAX	0377h	-999999999~999999999W	P-2 maximum active power and time stamp		R
	0378h				R
Year	0379h	2000~2099			R
Month	037Ah	1~12			R
Day	037Bh	1~31			R
Hour	037Ch	0~23			R
Minute	037Dh	0~59			R
Second	037Eh	0~59			R
P-2.MIN	037Fh	-999999999~999999999W	P-2 minimum active power and time stamp		R
	0380h				R
Year	0381h	2000~2099			R
Month	0382h	1~12			R
Day	0383h	1~31			R
Hour	0384h	0~23			R
Minute	0385h	0~59			R
Second	0386h	0~59			R
P-3.MAX	0387h	-999999999~999999999W	P-3 maximum active power and time stamp		R
	0388h				R
Year	0389h	2000~2099			R
Month	038Ah	1~12			R
Day	038Bh	1~31			R
Hour	038Ch	0~23			R
Minute	038Dh	0~59			R
Second	038Eh	0~59			R
P-3.MIN	038Fh	-999999999~999999999W	P-3 minimum active power and time stamp		R
	0390h				R
Year	0391h	2000~2099			R
Month	0392h	1~12			R
Day	0393h	1~31			R
Hour	0394h	0~23			R
Minute	0395h	0~59			R
Second	0396h	0~59			R
P.SUM.MAX	0397h	-999999999~999999999W	Maximum total active power and time stamp		R
	0398h				R
Year	0399h	2000~2099			R
Month	039Ah	1~12			R
Day	039Bh	1~31			R
Hour	039Ch	0~23			R
Minute	039Dh	0~59			R
Second	039Eh	0~59			R
P.SUM.MIN	039Fh	-999999999~999999999W	Minimum total active power and time stamp		R
	03A0h				R
Year	03A1h	2000~2099			R
Month	03A2h	1~12			R
Day	03A3h	1~31			R
Hour	03A4h	0~23			R
Minute	03A5h	0~59			R
Second	03A6h	0~59			R

Parameter	Address	Range	Description	Default	Property
Q-1.MAX	03A7h	-999999999~999999999VAR	Q-1maximum reactive power and time stamp		R
	03A8h				R
Year	03A9h	2000~2099			R
Month	03AAh	1~12			R
Day	03ABh	1~31			R
Hour	03ACh	0~23			R
Minute	03ADh	0~59			R
Second	03AEh	0~59			R
Q-1.MIN	03AFh	-999999999~999999999VAR	Q-1 minimum reactive power and time stamp		R
	03B0h				R
Year	03B1h	2000~2099			R
Month	03B2h	1~12			R
Day	03B3h	1~31			R
Hour	03B4h	0~23			R
Minute	03B5h	0~59			R
Second	03B6h	0~59			R
Q-2.MAX	03B7h	-999999999~999999999VAR	Q-2 maximum reactive power and time stamp		R
	03B8h				R
Year	03B9h	2000~2099			R
Month	03BAh	1~12			R
Day	03BBh	1~31			R
Hour	03BCh	0~23			R
Minute	03BDh	0~59			R
Second	03BEh	0~59			R
Q-2.MIN	03BFh	-999999999~999999999VAR	Q-2 minimum reactive power and time stamp		R
	03C0h				R
Year	03C1h	2000~2099			R
Month	03C2h	1~12			R
Day	03C3h	1~31			R
Hour	03C4h	0~23			R
Minute	03C5h	0~59			R
Second	03C6h	0~59			R
Q-3.MAX	03C7h	-999999999~999999999VAR	Q-3 maximum reactive power and time stamp		R
	03C8h				R
Year	03C9h	2000~2099			R
Month	03CAh	1~12			R
Day	03CBh	1~31			R
Hour	03CCh	0~23			R
Minute	03CDh	0~59			R
Second	03CEh	0~59			R
Q-3.MIN	03CFh	-999999999~999999999VAR	Q-3 minimum reactive power and time stamp		R
	03D0h				R
Year	03D1h	2000~2099			R
Month	03D2h	1~12			R
Day	03D3h	1~31			R
Hour	03D4h	0~23			R
Minute	03D5h	0~59			R
Second	03D6h	0~59			R
Q.SUM.MAX	03D7h	-999999999~999999999VAR	Maximum total reactive power and time stamp		R
	03D8h				R
Year	03D9h	2000~2099			R
Month	03DAh	1~12			R
Day	03DBh	1~31			R
Hour	03DCh	0~23			R
Minute	03DDh	0~59			R
Second	03DEh	0~59			R
Q.SUM.MIN	03DFh	-999999999~999999999VAR	Minimum total reactive power and time stamp		R
	03E0h				R
Year	03E1h	2000~2099			R
Month	03E2h	1~12			R
Day	03E3h	1~31			R
Hour	03E4h	0~23			R
Minute	03E5h	0~59			R
Second	03E6h	0~59			R

Parameter	Address	Range	Description	Default	Property
S-1.MAX	03E7h	0~ 999999999VA	S-1 maximum apparent power and time stamp		R
	03E8h				R
Year	03E9h	2000~2099			R
Month	03EAh	1~12			R
Day	03EBh	1~31			R
Hour	03ECh	0~23			R
Minute	03EDh	0~59			R
Second	03EEh	0~59			R
S-1.MIN	03EFh	0~ 999999999VA	S-1 minimum apparent power and time stamp		R
	03F0h				R
Year	03F1h	2000~2099			R
Month	03F2h	1~12			R
Day	03F3h	1~31			R
Hour	03F4h	0~23			R
Minute	03F5h	0~59			R
Second	03F6h	0~59			R
S-2.MAX	03F7h	0~ 999999999VA	S-2 maximum apparent power and time stamp		R
	03F8h				R
Year	03F9h	2000~2099			R
Month	03FAh	1~12			R
Day	03FBh	1~31			R
Hour	03FCh	0~23			R
Minute	03FDh	0~59			R
Second	03FEh	0~59			R
S-2.MIN	03FFh	0~ 999999999VA	S-2 minimum apparent power and time stamp		R
	0400h				R
Year	0401h	2000~2099			R
Month	0402h	1~12			R
Day	0403h	1~31			R
Hour	0404h	0~23			R
Minute	0405h	0~59			R
Second	0406h	0~59			R
S-3.MAX	0407h	0~ 999999999VA	S-3 maximum apparent power and time stamp		R
	0408h				R
Year	0409h	2000~2099			R
Month	040Ah	1~12			R
Day	040Bh	1~31			R
Hour	040Ch	0~23			R
Minute	040Dh	0~59			R
Second	040Eh	0~59			R
S-3.MIN	040Fh	0~ 999999999VA	S-3 minimum apparent power and time stamp		R
	0410h				R
Year	0411h	2000~2099			R
Month	0412h	1~12			R
Day	0413h	1~31			R
Hour	0414h	0~23			R
Minute	0415h	0~59			R
Second	0416h	0~59			R
S.SUM.MAX	0417h	0~ 999999999VA	Maximum total apparent power and time stamp		R
	0418h				R
Year	0419h	2000~2099			R
Month	041Ah	1~12			R
Day	041Bh	1~31			R
Hour	041Ch	0~23			R
Minute	041Dh	0~59			R
Second	041Eh	0~59			R
S.SUM.MIN	041Fh	0~ 999999999VA	Minimum total apparent power and time stamp		R
	0420h				R
Year	0421h	2000~2099			R
Month	0422h	1~12			R
Day	0423h	1~31			R
Hour	0424h	0~23			R
Minute	0425h	0~59			R
Second	0426h	0~59			R

Parameter	Address	Range	Description	Default	Property
PF1.MAX	0427h	-1.000~1.000	PF1 maximum power factor and time stamp		R
Year	0428h	2000~2099			R
Month	0429h	1~12			R
Day	042Ah	1~31			R
Hour	042Bh	0~23			R
Minute	042Ch	0~59			R
Second	042Dh	0~59			R
PF1.MIN	042Eh	-1.000~1.000	PF1 minimum power factor and time stamp		R
Year	042Fh	2000~2099			R
Month	0430h	1~12			R
Day	0431h	1~31			R
Hour	0432h	0~23			R
Minute	0433h	0~59			R
Second	0434h	0~59			R
PF2.MAX	0435h	-1.000~1.000	PF2 maximum power factor and time stamp		R
Year	0436h	2000~2099			R
Month	0437h	1~12			R
Day	0438h	1~31			R
Hour	0439h	0~23			R
Minute	043Ah	0~59			R
Second	043Bh	0~59			R
PF2.MIN	043Ch	-1.000~1.000	PF2 minimum power factor and time stamp		R
Year	043Dh	2000~2099			R
Month	043Eh	1~12			R
Day	043Fh	1~31			R
Hour	0440h	0~23			R
Minute	0441h	0~59			R
Second	0442h	0~59			R
PF3.MAX	0443h	-1.000~1.000	PF3 maximum power factor and time stamp		R
Year	0444h	2000~2099			R
Month	0445h	1~12			R
Day	0446h	1~31			R
Hour	0447h	0~23			R
Minute	0448h	0~59			R
Second	0449h	0~59			R
PF3.MIN	044Ah	-1.000~1.000	PF3 minimum power factor and time stamp		R
Year	044Bh	2000~2099			R
Month	044Ch	1~12			R
Day	044Dh	1~31			R
Hour	044Eh	0~23			R
Minute	044Fh	0~59			R
Second	0450h	0~59			R
PF.AVG.MAX	0451h	-1.000~1.000	Maximum average power factor and time stamp		R
Year	0452h	2000~2099			R
Month	0453h	1~12			R
Day	0454h	1~31			R
Hour	0455h	0~23			R
Minute	0456h	0~59			R
Second	0457h	0~59			R
PF.AVG.MIN	0458h	-1.000~1.000	Minimum average power factor and time stamp		R
Year	0459h	2000~2099			R
Month	045Ah	1~12			R
Day	045Bh	1~31			R
Hour	045Ch	0~23			R
Minute	045Dh	0~59			R
Second	045Eh	0~59			R
FREQ.MAX	045Fh	45.00~65.00Hz	Maximum frequency and time stamp		R
Year	0460h	2000~2099			R
Month	0461h	1~12			R
Day	0462h	1~31			R
Hour	0463h	0~23			R
Minute	0464h	0~59			R
Second	0465h	0~59			R
FREQ.MIN	0466h	45.00~65.00Hz	Minimum frequency and time stamp		R
Year	0467h	2000~2099			R
Month	0468h	1~12			R
Day	0469h	1~31			R
Hour	046Ah	0~23			R
Minute	046Bh	0~59			R
Second	046Ch	0~59			R

Parameter	Address	Range	Description	Default	Property
U1(U12).THD.MAX	046Dh		U1(U12) maximum total harmonic distortion for voltage		R
Year	046Eh	2000~2099	Year		R
Month	046Fh	1~12	Month		R
Day	0470h	1~31	Day		R
Hour	0471h	0~23	Hour		R
Minute	0472h	0~59	Minute		R
Second	0473h	0~59	Second		R
U1(U12).THD.MIN	0474h		U1(U12) minimum total harmonic distortion for voltage and time stamp		R
Year	0475h	2000~2099			R
Month	0476h	1~12			R
Day	0477h	1~31			R
Hour	0478h	0~23			R
Minute	0479h	0~59			R
Second	047Ah	0~59			R
U2(U23).THD.MAX	047Bh		U2(U23) maximum total harmonic distortion for voltage and time stamp		R
Year	047Ch	2000~2099			R
Month	047Dh	1~12			R
Day	047Eh	1~31			R
Hour	047Fh	0~23			R
Minute	0480h	0~59			R
Second	0481h	0~59			R
U2(U23).THD.MIN	0482h		U2(U23) minimum total harmonic distortion for voltage and time stamp		R
Year	0483h	2000~2099			R
Month	0484h	1~12			R
Day	0485h	1~31			R
Hour	0486h	0~23			R
Minute	0487h	0~59			R
Second	0488h	0~59			R
U3(U31).THD.MAX	0489h		U3(U31) maximum total harmonic distortion for voltage and time stamp		R
Year	048Ah	2000~2099			R
Month	048Bh	1~12			R
Day	048Ch	1~31			R
Hour	048Dh	0~23			R
Minute	048Eh	0~59			R
Second	048Fh	0~59			R
U3(U31).THD.MIN	0490h		U3(U31) minimum total harmonic distortion for voltage and time stamp		R
Year	0491h	2000~2099			R
Month	0492h	1~12			R
Day	0493h	1~31			R
Hour	0494h	0~23			R
Minute	0495h	0~59			R
Second	0496h	0~59			R
UAVG.THD.MAX	0497h		Maximum average total harmonic distortion for voltage and time stamp		R
Year	0498h	2000~2099			R
Month	0499h	1~12			R
Day	049Ah	1~31			R
Hour	049Bh	0~23			R
Minute	049Ch	0~59			R
Second	049Dh	0~59			R
UAVG.THD.MIN	049Eh		Minimum average total harmonic distortion for voltage and time stamp		R
Year	049Fh	2000~2099			R
Month	04A0h	1~12			R
Day	04A1h	1~31			R
Hour	04A2h	0~23			R
Minute	04A3h	0~59			R
Second	04A4h	0~59			R
I1.THD.MAX	04A5h		I1 maximum total harmonic distortion for current and time stamp		R
Year	04A6h	2000~2099			R
Month	04A7h	1~12			R
Day	04A8h	1~31			R
Hour	04A9h	0~23			R
Minute	04AAh	0~59			R
Second	04ABh	0~59			R
I1.THD.MIN	04ACh		I1 minimum total harmonic distortion for current and time stamp		R
Year	04ADh	2000~2099			R
Month	04AEh	1~12			R
Day	04AFh	1~31			R
Hour	04B0h	0~23			R
Minute	04B1h	0~59			R
Second	04B2h	0~59			R

Parameter	Address	Range	Description	Default	Property
I2.THD.MAX	04B3h		I2 maximum total harmonic distortion for current and time stamp		R
Year	04B4h	2000~2099			R
Month	04B5h	1~12			R
Day	04B6h	1~31			R
Hour	04B7h	0~23			R
Minute	04B8h	0~59			R
Second	04B9h	0~59			R
I2.THD.MIN	04BAh		I2 minimum total harmonic distortion for current and time stamp		R
Year	04BBh	2000~2099			R
Month	04BCh	1~12			R
Day	04BDh	1~31			R
Hour	04BEh	0~23			R
Minute	04BFh	0~59			R
Second	04C0h	0~59			R
I3.THD.MAX	04C1h		I3 maximum total harmonic distortion for current and time stamp		R
Year	04C2h	2000~2099			R
Month	04C3h	1~12			R
Day	04C4h	1~31			R
Hour	04C5h	0~23			R
Minute	04C6h	0~59			R
Second	04C7h	0~59			R
I3.THD.MIN	04C8h		I3 minimum total harmonic distortion for current and time stamp		R
Year	04C9h	2000~2099			R
Month	04CAh	1~12			R
Day	04CBh	1~31			R
Hour	04CCh	0~23			R
Minute	04CDh	0~59			R
Second	04CEh	0~59			R
IAVG.THD.MAX	04CFh		Maximum average total harmonic distortion for current and time stamp		R
Year	04D0h	2000~2099			R
Month	04D1h	1~12			R
Day	04D2h	1~31			R
Hour	04D3h	0~23			R
Minute	04D4h	0~59			R
Second	04D5h	0~59			R
IAVG.THD.MIN	04D6h		Minimum average total harmonic distortion for current and time stamp		R
Year	04D7h	2000~2099			R
Month	04D8h	1~12			R
Day	04D9h	1~31			R
Hour	04DAh	0~23			R
Minute	04DBh	0~59			R
Second	04DCh	0~59			R

MAX/MIN Values (Code : 03h)

Parameter	Address	Range	Description	Default	Property
P.DM.MAX	04DDh	-999999999~999999999W	Maximum total active power demand (High Word)		R
	04DEh		Maximum total active power demand (Low Word)		R
Year	04DFh	2000~2099	Year		R
Month	04E0h	1~12	Month		R
Day	04E1h	1~31	Day		R
Hour	04E2h	0~23	Hour		R
Minute	04E3h	0~59	Minute		R
Second	04E4h	0~59	Second		R
P.DM.MIN	04E5h	-999999999~999999999W	Minimum total active power demand and time stamp		R
	04E6h				R
Year	04E7h	2000~2099			R
Month	04E8h	1~12			R
Day	04E9h	1~31			R
Hour	04EAh	0~23			R
Minute	04EBh	0~59			R
Second	04ECh	0~59			R
Q.DM.MAX	04EDh	-999999999~999999999VAR	Maximum total reactive power demand and time stamp		R
	04EEh				R
Year	04EFh	2000~2099			R
Month	04F0h	1~12			R
Day	04F1h	1~31			R
Hour	04F2h	0~23			R
Minute	04F3h	0~59			R
Second	04F4h	0~59			R
Q.DM.MIN	04F5h	-999999999~999999999VAR	Minimum total reactive power demand and time stamp		R
	04F6h				R
Year	04F7h	2000~2099			R
Month	04F8h	1~12			R
Day	04F9h	1~31			R
Hour	04FAh	0~23			R
Minute	04FBh	0~59			R
Second	04FCh	0~59			R
S.DM.MAX	04FDh	0~999999999VA	Maximum total apparent power demand and time stamp		R
	04FEh				R
Year	04FFh	2000~2099			R
Month	0500h	1~12			R
Day	0501h	1~31			R
Hour	0502h	0~23			R
Minute	0503h	0~59			R
Second	0504h	0~59			R
S.DM.MIN	0505h	0~999999999VA	Minimum total apparent power demand and time stamp		R
	0506h				R
Year	0507h	2000~2099			R
Month	0508h	1~12			R
Day	0509h	1~31			R
Hour	050Ah	0~23			R
Minute	050Bh	0~59			R
Second	050Ch	0~59			R
I1.DM.MAX	050Dh	0.000~9999.999A	Maximum I1 current demand and time stamp		R
	050Eh				R
Year	050Fh	2000~2099			R
Month	0510h	1~12			R
Day	0511h	1~31			R
Hour	0512h	0~23			R
Minute	0513h	0~59			R
Second	0514h	0~59			R
I2.DM.MAX	0515h	0.000~9999.999A	Maximum I2 current demand and time stamp		R
	0516h				R
Year	0517h	2000~2099			R
Month	0518h	1~12			R
Day	0519h	1~31			R
Hour	051Ah	0~23			R
Minute	051Bh	0~59			R
Second	051Ch	0~59			R

Parameter	Address	Range	Description	Default	Property
I3.DM.MAX	051Dh	0.000~9999.999A	Maximum I3 current demand and time stamp		R
	051Eh				R
Year	051Fh	2000~2099			R
Month	0520h	1~12			R
Day	0521h	1~31			R
Hour	0522h	0~23			R
Minute	0523h	0~59			R
Second	0524h	0~59			R
I.AVG.DM.MAX	0525h	0.000~9999.999A	Maximum average current demand and time stamp		R
	0526h				R
Year	0527h	2000~2099			R
Month	0528h	1~12			R
Day	0529h	1~31			R
Hour	052Ah	0~23			R
Minute	052Bh	0~59			R
Second	052Ch	0~59			R

Event logging data reading (Code: 03h):

Parameter	Address	Range	Description	Default	Property
Event Log last NO.	0600h	0~16	Last logging NO. 0: None 1~16: New number		R
Event Source 1	0601h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 1	0602h	0~1	Event status 0: Recover 1: Alert		R
Event Log 1 Parameter	0603h	0~35	Alarm item 0: FREQ 1: U1 2: U2 3: U3 4: ULN.AVG 5: U12 6: U23 7: U31 8: ULL.AVG 9: I1 10: I2 11: I3 12: I.AVG 13: IN 14: P-1 15: P-2 16: P-3 17: P.SUM 18: Q-1 19: Q-2 20: Q-3 21: Q.SUM 22: S-1 23: S-2 24: S-3 25: S.SUM 26: Pf1 27: PF2 28: PF3 29: PF.AVG 30: P.DM 31: Q.DM 32: S.DM 33: I.AVG.DM 34: Uunbl 35: Iunbl		R
Event Log 1 Value	0604h	According to item range	Alarm value (High Word)		R
	0605h		Alarm value (Low Word)		
Year	0606h	2000~2099	Year		R
Month	0607h	1~12	Month		R
Day	0608h	1~31	Day		R
Hour	0609h	0~23	Hour		R
Minute	060Ah	0~59	Minute		R
Second	060Bh	0~59	Second		R
Event Source 2	060Ch	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 2	060Dh	0~1	Event status 0: Recover 1: Alert		R
Event Log 2 Parameter	060Eh	0~35	Refer to Log1		R
Event Log 2 Value	060Fh	According to item range	Alarm value (High Word)		R
	0610h		Alarm value (Low Word)		R
Year	0611h	2000~2099	Year		R
Month	0612h	1~12	Month		R
Day	0613h	1~31	Day		R
Hour	0614h	0~23	Hour		R
Minute	0615h	0~59	Minute		R
Second	0616h	0~59	Second		R
Event Source 2	060Ch	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 2	060Dh	0~1	Event status 0: Recover 1: Alert		R
Event Log 2 Parameter	060Eh	0~35	Refer to Log1		R
Event Log 2 Value	060Fh	According to item range	Alarm value (High Word)		R
	0610h		Alarm value (Low Word)		R
Year	0611h	2000~2099	Year		R
Month	0612h	1~12	Month		R
Day	0613h	1~31	Day		R
Hour	0614h	0~23	Hour		R
Minute	0615h	0~59	Minute		R
Second	0616h	0~59	Second		R
Event Source 3	0617h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 3	0618h	0~1	Event status 0: Recover 1: Alert		R
Event Log 3 Parameter	0619h	0~35	Refer to Log1		R
Event Log 3 Value	061Ah	According to item range	Alarm value (High Word)		R
	061Bh		Alarm value (Low Word)		R
Year	061Ch	2000~2099	Year		R
Month	061Dh	1~12	Month		R
Day	061Eh	1~31	Day		R
Hour	061Fh	0~23	Hour		R
Minute	0620h	0~59	Minute		R
Second	0621h	0~59	Second		R
Event Source 4	0622h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 4	0623h	0~1	Event status 0: Recover 1: Alert		R
Event Log 4 Parameter	0624h	0~35	Refer to Log1		R
Event Log 4 Value	0625h	According to item range	Alarm value (High Word)		R
	0626h		Alarm value (Low Word)		R
Year	0627h	2000~2099	Year		R
Month	0628h	1~12	Month		R
Day	0629h	1~31	Day		R
Hour	062Ah	0~23	Hour		R
Minute	062Bh	0~59	Minute		R
Second	062Ch	0~59	Second		R

Parameter	Address	Range	Description	Default	Property
Event Source 5	062Dh	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 5	062Eh	0~1	Event status 0: Recover 1: Alert		R
Event Log 5 Parameter	062Fh	0~35	Refer to Log1		R
Event Log 5 Value	0630h	According to item range	Alarm value (High Word)		R
	0631h		Alarm value (Low Word)		R
Year	0632h	2000~2099	Year		R
Month	0633h	1~12	Month		R
Day	0634h	1~31	Day		R
Hour	0635h	0~23	Hour		R
Minute	0636h	0~59	Minute		R
Second	0637h	0~59	Second		R
Event Source 6	0638h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 6	0639h	0~1	Event status 0: Recover 1: Alert		R
Event Log 6 Parameter	063Ah	0~35	Refer to Log1		R
Event Log 6 Value	063Bh	According to item range	Alarm value (High Word)		R
	063Ch		Alarm value (Low Word)		R
Year	063Dh	2000~2099	Year		R
Month	063Eh	1~12	Month		R
Day	063Fh	1~31	Day		R
Hour	0640h	0~23	Hour		R
Minute	0641h	0~59	Minute		R
Second	0642h	0~59	Second		R
Event Source 7	0643h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 7	0644h	0~1	Event status 0: Recover 1: Alert		R
Event Log 7 Parameter	0645h	0~35	Refer to Log1		R
Event Log 7 Value	0646h	According to item range	Alarm value (High Word)		R
	0647h		Alarm value (Low Word)		R
Year	0648h	2000~2099	Year		R
Month	0649h	1~12	Month		R
Day	064Ah	1~31	Day		R
Hour	064Bh	0~23	Hour		R
Minute	064Ch	0~59	Minute		R
Second	064Dh	0~59	Second		R
Event Source 8	064Eh	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 8	064Fh	0~1	Event status 0: Recover 1: Alert		R
Event Log 8 Parameter	0650h	0~35	Refer to Log1		R
Event Log 8 Value	0651h	According to item range	Alarm value (High Word)		R
	0652h		Alarm value (Low Word)		R
Year	0653h	2000~2099	Year		R
Month	0654h	1~12	Month		R
Day	0655h	1~31	Day		R
Hour	0656h	0~23	Hour		R
Minute	0657h	0~59	Minute		R
Second	0658h	0~59	Second		R
Event Source 9	0659h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 9	065Ah	0~1	Event status 0: Recover 1: Alert		R
Event Log 9 Parameter	065Bh	0~35	Refer to Log1		R
Event Log 9 Value	065Ch	According to item range	Alarm value (High Word)		R
	065Dh		Alarm value (Low Word)		R
Year	065Eh	2000~2099	Year		R
Month	065Fh	1~12	Month		R
Day	0660h	1~31	Day		R
Hour	0661h	0~23	Hour		R
Minute	0662h	0~59	Minute		R
Second	0663h	0~59	Second		R

Parameter	Address	Range	Description	Default	Property
Event Source 10	0664h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 10	0665h	0~1	Event status 0: Recover 1: Alert		R
Event Log 10 Parameter	0666h	0~35	Refer to Log1		R
Event Log 10 Value	0667h	According to item range	Alarm value (High Word)		R
	0668h		Alarm value (Low Word)		R
Year	0669h	2000~2099	Year		R
Month	066Ah	1~12	Month		R
Day	066Bh	1~31	Day		R
Hour	066Ch	0~23	Hour		R
Minute	066Dh	0~59	Minute		R
Second	066Eh	0~59	Second		R
Event Source 11	066Fh	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 11	0670h	0~1	Event status 0: Recover 1: Alert		R
Event Log 11 Parameter	0671h	0~35	Refer to Log1		R
Event Log 11 Value	0672h	According to item range	Alarm value (High Word)		R
	0673h		Alarm value (Low Word)		R
Year	0674h	2000~2099	Year		R
Month	0675h	1~12	Month		R
Day	0676h	1~31	Day		R
Hour	0677h	0~23	Hour		R
Minute	0678h	0~59	Minute		R
Second	0679h	0~59	Second		R
Event Source 12	067Ah	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 12	067Bh	0~1	Event status 0: Recover 1: Alert		R
Event Log 12 Parameter	067Ch	0~35	Refer to Log1		R
Event Log 12 Value	067Dh	According to item range	Alarm value (High Word)		R
	067Eh		Alarm value (Low Word)		R
Year	067Fh	2000~2099	Year		R
Month	0680h	1~12	Month		R
Day	0681h	1~31	Day		R
Hour	0682h	0~23	Hour		R
Minute	0683h	0~59	Minute		R
Second	0684h	0~59	Second		R
Event Source 13	0685h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 13	0686h	0~1	Event status 0: Recover 1: Alert		R
Event Log 13 Parameter	0687h	0~35	Refer to Log1		R
Event Log 13 Value	0688h	According to item range	Alarm value (High Word)		R
	0689h		Alarm value (Low Word)		R
Year	068Ah	2000~2099	Year		R
Month	068Bh	1~12	Month		R
Day	068Ch	1~31	Day		R
Hour	068Dh	0~23	Hour		R
Minute	068Eh	0~59	Minute		R
Second	068Fh	0~59	Second		R
Event Source 14	0690h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 14	0691h	0~1	Event status 0: Recover 1: Alert		R
Event Log 14 Parameter	0692h	0~35	Refer to Log1		R
Event Log 14 Value	0693h	According to item range	Alarm value (High Word)		R
	0694h		Alarm value (Low Word)		R
Year	0695h	2000~2099	Year		R
Month	0696h	1~12	Month		R
Day	0697h	1~31	Day		R
Hour	0698h	0~23	Hour		R
Minute	0699h	0~59	Minute		R
Second	069Ah	0~59	Second		R

Parameter	Address	Range	Description	Default	Property
Event Source 15	069Bh	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 15	069Ch	0~1	Event status 0: Recover 1: Alert		R
Event Log 15 Parameter	069Dh	0~35	Refer to Log1		R
Event Log 15 Value	069Eh	According to item range	Alarm value (High Word)		R
	069Fh		Alarm value (Low Word)		R
Year	06A0h	2000~2099	Year		R
Month	06A1h	1~12	Month		R
Day	06A2h	1~31	Day		R
Hour	06A3h	0~23	Hour		R
Minute	06A4h	0~59	Minute		R
Second	06A5h	0~59	Second		R
Event Source 16	06A6h	1~16	Event trigger source 1~16: Event Setting NO. 1~16		R
Event Status 16	06A7h	0~1	Event status 0: Recover 1: Alert		R
Event Log 16 Parameter	06A8h	0~35	Refer to Log1		R
Event Log 16 Value	06A9h	According to item range	Alarm value (High Word)		R
	06AAh		Alarm value (Low Word)		R
Year	06ABh	2000~2099	Year		R
Month	06ACh	1~12	Month		R
Day	06ADh	1~31	Day		R
Hour	06AEh	0~23	Hour		R
Minute	06AFh	0~59	Minute		R
Second	06B0h	0~59	Second		R

Phase angle data reading (Code : 03h)

Parameter	Address	Range	Description	Default	Property
Phasor Diagram V2 lag V1	0700h	0~360.0	Phasor Diagram V2 lag V1		R
Phasor Diagram V3 lag V1	0701h	0~360.0	Phasor Diagram V3 lag V1		R
Phasor Diagram I1 lag V1	0702h	0~360.0	Phasor Diagram I1 lag V1		R
Phasor Diagram I2 lag V1	0703h	0~360.0	Phasor Diagram I2 lag V1		R
Phasor Diagram I3 lag V1	0704h	0~360.0	Phasor Diagram I3 lag V1		R
Phasor Diagram V23 lag V12	0705h	0~360.0	Phasor Diagram V23 lag V12		R
Phasor Diagram V31 lag V12	0706h	0~360.0	Phasor Diagram V31 lag V12		R
Phasor Diagram I1 lag V12	0707h	0~360.0	Phasor Diagram I1 lag V12		R
Phasor Diagram I2 lag V12	0708h	0~360.0	Phasor Diagram I2 lag V12		R
Phasor Diagram I3 lag V12	0709h	0~360.0	Phasor Diagram I3 lag V12		R

Logging data reading(Code: 03h , 06h)

Parameter	Address	Range	Description	Default	Property
Log.Word.Num	4000h		Data length of record value		R
Log.Unread.Num	4001h		Number of unread datas		R
Log.Read	4002h		Reply 0020h if data empty		R
Log.Read Status	4003h	0~2	Reading Status feedback code: 0: Clear logging data(Read and write indicators are equal) 1: Abort this time read (The next time will read from the last unread items) 2: Read success		W

Logging setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
Log.Source	4010h	0~1	Data recording source 0: recording maunally 1: recording by schedule		R
Log.Time.Set	4011h	1~32767	Recording interval time	15	R/W
Log.Time.Unit	4012h	0~3	Unit of interval time 0: sec 1: min 2: hour 3: day	1	R/W
Start.Year	4013h	2000~2099	Date and time for start	2024	R/W
Start.Month	4014h	1~12		1	R/W
Start.Day	4015h	1~31		1	R/W
Start.Hour	4016h	0~23		0	R/W
Start.Minute	4017h	0~59		0	R/W
Start.Second	4018h	0~59		0	R/W
Stop.Year	4019h	2000~2099	Date and time for start	2024	R/W
Stop.Month	401Ah	1~12		1	R/W
Stop.Day	401Bh	1~31		1	R/W
Stop.Hour	401Ch	0~23		0	R/W
Stop.Minute	401Dh	0~59		0	R/W
Stop.Second	401Eh	0~59		0	R/W
Log.Start.Set	401Fh	0~1	Recording manually 0: Disable 1: Enable	0	R/W
Log.Para 01	4020h	0~96	parameter code : 0: NONE 1: FREQ 2: U1 3: U2 4: U3 5: ULN.AVG 6: U12 7: U23 8: U31 9: ULL.AVG 10: I1 11: I2 12: I3 13: I.AVG 14: IN 15: P-1 16: P-2 17: P-3 18: P.SUM 19: Q-1 20: Q-2 21: Q-3 22: Q.SUM 23: S-1 24: S-2 25: S-3 26: S.SUM 27: PF1 28: PF2 29: PF3 30: PF.AVG 31: Uunbl 32: Iunbl 33: Load Type 34: P.DM. 35: Q.DM. 36: S.DM. 37: I1.DM. 38: I2.DM. 39: I3.DM. 40: I.AVG.DM. 41: AE.IMP 42: AE.Exp 43: RE.IMP 44: RE.EXP 45: SE.Total 46: U1(U12).THD 47: U2(U23).THD 48: U3(U31).THD 49: UAVG.THD 50: I1.THD 51: I2.THD 52: I3.THD 53: IAVG.THD 54: Phasor Diagram V2 lag V1 55: Phasor Diagram V3 lag V1 56: Phasor Diagram I1 lag V1 57: Phasor Diagram I2 lag V1 58: Phasor Diagram I3 lag V1 59: Phasor Diagram V23 lag V12 60: Phasor Diagram V31 lag V12 61: Phasor Diagram I1 lag V12 62: Phasor Diagram I2 lag V12 63: Phasor Diagram I3 lag V12 64: U1(U12).THD.MAX 65: U1(U12).THD.MIN 66: U2(U23).THD.MAX 67: U2(U23).THD.MIN 68: U3(U31).THD.MAX 69: U3(U31).THD.MIN 70: UAVG.THD.MAX 71: UAVG.THD.MIN 72: I1.THD.MAX 73: I1.THD.MIN 74: I2.THD.MAX 75: I2.THD.MIN 76: I3.THD.MAX 77: I3.THD.MIN 78: IAVG.THD.MAX 79: IAVG.THD.MIN 80: P.DM.MAX 81: P.DM.MIN 82: Q.DM.MAX 83: Q.DM.MIN 84: S.DM.MAX 85: S.DM.MIN 86: I1.DM.MAX 87: I2.DM.MAX 88: I3.DM.MAX 89: I.AVG.DM.MAX 90: Max U1 91: Max U2 92: Max U3 93: Max U12 94: Max U23 95: Max U31 96: KWH Total	0	R/W
Log.Para 02	4021h			0	R/W
Log.Para 03	4022h			0	R/W
Log.Para 04	4023h			0	R/W
Log.Para 05	4024h			0	R/W
Log.Para 06	4025h			0	R/W
Log.Para 07	4026h			0	R/W
Log.Para 08	4027h			0	R/W
Log.Para 09	4028h			0	R/W
Log.Para 10	4029h			0	R/W
Log.Para 11	402Ah			0	R/W
Log.Para 12	402Bh			0	R/W
Log.Para 13	402Ch			0	R/W
Log.Para 14	402Dh			0	R/W
Log.Para 15	402Eh			0	R/W
Log.Para 16	402Fh			0	R/W
Log.Para 17	4030h			0	R/W
Log.Para 18	4031h			0	R/W
Log.Para 19	4032h			0	R/W
Log.Para 20	4033h			0	R/W
Log.Para 21	4034h			0	R/W
Log.Para 22	4035h			0	R/W
Log.Para 23	4036h			0	R/W
Log.Para 24	4037h			0	R/W
Log.Para 25	4038h			0	R/W
Log.Para 26	4039h			0	R/W
Log.Para 27	403Ah			0	R/W
Log.Para 28	403Bh			0	R/W
Log.Para 29	403Ch			0	R/W
Log.Para 30	403Dh			0	R/W
Log.Para 31	403Eh			0	R/W
Log.Para 32	403Fh			0	R/W
Log.Para 33	4040h			0	R/W
Log.Para 34	4041h			0	R/W
Log.Para 35	4042h			0	R/W
Log.Para 36	4043h			0	R/W
Log.Para 37	4044h			0	R/W
Log.Para 38	4045h			0	R/W
Log.Para 39	4046h			0	R/W
Log.Para 40	4047h			0	R/W
Log.Para 41	4048h			0	R/W
Log.Para 42	4049h			0	R/W
Log.Para 43	404Ah			0	R/W
Log.Para 44	404Bh			0	R/W
Log.Para 45	404Ch			0	R/W
Log.Para 46	404Dh			0	R/W
Log.Para 47	404Eh			0	R/W
Log.Para 48	404Fh			0	R/W
Log.Para 49	4050h			0	R/W
Log.Para 50	4051h			0	R/W

※The starting time of the recording interval is divided into scheduled time and manual startup time according to the startup source.
※The schedule start recording time must be later than the current time when the user setup system to be valid.
※After the recording is started, if the meter is powered off and then restored, it will continue to record according to the original recording method.
※To end schedule recording, you can set the stop recording time, or you can set manual recording to stop to end the schedule recording function.

User define setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
U.DF01P	5000h	0130h~0177h 0181h~019Bh 029Fh~02A6h 0700h~0709h	Values from 1~20 parameter assignment	0130h	R/W
U.DF02P	5001h			0131h	R/W
U.DF03P	5002h			0132h	R/W
U.DF04P	5003h			0133h	R/W
U.DF05P	5004h			0134h	R/W
U.DF06P	5005h			0135h	R/W
U.DF07P	5006h			0136h	R/W
U.DF08P	5007h			0137h	R/W
U.DF09P	5008h			0138h	R/W
U.DF10P	5009h			0139h	R/W
U.DF11P	500Ah			013Ah	R/W
U.DF12P	500Bh			013Bh	R/W
U.DF13P	500Ch			013Ch	R/W
U.DF14P	500Dh			013Dh	R/W
U.DF15P	500Eh			013Eh	R/W
U.DF16P	500Fh			013Fh	R/W
U.DF17P	5010h			0140h	R/W
U.DF18P	5011h			0141h	R/W
U.DF19P	5012h			0142h	R/W
U.DF20P	5013h			0143h	R/W
U.DF01V	5014h		Values from 1~20 parameter address for user assign		R
U.DF02V	5015h				R
U.DF03V	5016h				R
U.DF04V	5017h				R
U.DF05V	5018h				R
U.DF06V	5019h				R
U.DF07V	501Ah				R
U.DF08V	501Bh				R
U.DF09V	501Ch				R
U.DF10V	501Dh				R
U.DF11V	501Eh				R
U.DF12V	501Fh				R
U.DF13V	5020h				R
U.DF14V	5021h				R
U.DF15V	5022h				R
U.DF16V	5023h				R
U.DF17V	5024h				R
U.DF18V	5025h				R
U.DF19V	5026h				R
U.DF20V	5027h				R

Current month TOU energy (Code : 03h)

Parameter	Address	Range	Description	Default	Property
Ep-IMP(sharp)	6000h	0.0~99999999.9kWh	Import active energy (sharp) (High Word)	0	R
	6001h		Import active energy (sharp) (Low Word)	0	R
Ep-Exp(sharp)	6002h	0.0~99999999.9kWh	Export active energy (sharp) (High Word)	0	R
	6003h		Export active energy (sharp) (Low Word)	0	R
Eq-IMP(sharp)	6004h	0.0~99999999.9kVARh	Import reactive energy (sharp) (High Word)	0	R
	6005h		Import reactive energy (sharp) (Low Word)	0	R
Eq-Exp(sharp)	6006h	0.0~99999999.9kVARh	Export reactive energy (sharp) (High Word)	0	R
	6007h		Export reactive energy (sharp) (Low Word)	0	R
Es(sharp)	6008h	0.0~99999999.9kVAh	Apparent energy (sharp) (High Word)	0	R
	6009h		Apparent energy (sharp) (Low Word)	0	R
Ep-IMP(peak)	600Ah	0.0~99999999.9kWh	Import active energy (peak) (High Word)	0	R
	600Bh		Import active energy (peak) (Low Word)	0	R
Ep-Exp(peak)	600Ch	0.0~99999999.9kWh	Export active energy (peak) (High Word)	0	R
	600Dh		Export active energy (peak) (Low Word)	0	R
Eq-IMP(peak)	600Eh	0.0~99999999.9kVARh	Import reactive energy (peak) (High Word)	0	R
	600Fh		Import reactive energy (peak) (Low Word)	0	R
Eq-Exp(peak)	6010h	0.0~99999999.9kVARh	Export reactive energy (peak) (High Word)	0	R
	6011h		Export reactive energy (peak) (Low Word)	0	R
Es(peak)	6012h	0.0~99999999.9kVAh	Apparent energy (peak) (High Word)	0	R
	6013h		Apparent energy (peak) (Low Word)	0	R
Ep-IMP(valley)	6014h	0.0~99999999.9kWh	Import active energy (valley) (High Word)	0	R
	6015h		Import active energy (valley) (Low Word)	0	R
Ep-Exp(valley)	6016h	0.0~99999999.9kWh	Export active energy (valley) (High Word)	0	R
	6017h		Export active energy (valley) (Low Word)	0	R
Eq-IMP(valley)	6018h	0.0~99999999.9kVARh	Import reactive energy (valley) (High Word)	0	R
	6019h		Import reactive energy (valley) (Low Word)	0	R
Eq-Exp(valley)	601Ah	0.0~99999999.9kVARh	Export reactive energy (valley) (High Word)	0	R
	601Bh		Export reactive energy (valley) (Low Word)	0	R
Es(valley)	601Ch	0.0~99999999.9kVAh	Apparent energy (valley) (High Word)	0	R
	601Dh		Apparent energy (valley) (Low Word)	0	R
Ep-IMP(normal)	601Eh	0.0~99999999.9kWh	Import active energy (normal) (High Word)	0	R
	601Fh		Import active energy (normal) (Low Word)	0	R
Ep-Exp(normal)	6020h	0.0~99999999.9kWh	Export active energy (normal) (High Word)	0	R
	6021h		Export active energy (normal) (Low Word)	0	R
Eq-IMP(normal)	6022h	0.0~99999999.9kVARh	Import reactive energy (normal) (High Word)	0	R
	6023h		Import reactive energy (normal) (Low Word)	0	R
Eq-Exp(normal)	6024h	0.0~99999999.9kVARh	Export reactive energy (normal) (High Word)	0	R
	6025h		Export reactive energy (normal) (Low Word)	0	R
Es(normal)	6026h	0.0~99999999.9kVAh	Apparent energy (normal) (High Word)	0	R
	6027h		Apparent energy (normal) (Low Word)	0	R
Ep-IMP(sum)	6028h	0.0~99999999.9kWh	Import active energy (sum) (High Word)	0	R
	6029h		Import active energy (sum) (Low Word)	0	R
Ep-Exp(sum)	602Ah	0.0~99999999.9kWh	Export active energy (sum) (High Word)	0	R
	602Bh		Export active energy (sum) (Low Word)	0	R
Eq-IMP(sum)	602Ch	0.0~99999999.9kVARh	Import reactive energy (sum) (High Word)	0	R
	602Dh		Import reactive energy (sum) (Low Word)	0	R
Eq-Exp(sum)	602Eh	0.0~99999999.9kVARh	Export reactive energy (sum) (High Word)	0	R
	602Fh		Export reactive energy (sum) (Low Word)	0	R
Es(sum)	6030h	0.0~99999999.9kVAh	Apparent energy (sum) (High Word)	0	R
	6031h		Apparent energy (sum) (Low Word)	0	R

Last month TOU energy (Code : 03h)

Parameter	Address	Range	Description	Default	Property
Ep-IMP(sharp)	6032h	0.0~99999999.9kWh	Import active energy (sharp) (High Word)	0	R
	6033h		Import active energy (sharp) (Low Word)	0	R
Ep-Exp(sharp)	6034h	0.0~99999999.9kWh	Export active energy (sharp) (High Word)	0	R
	6035h		Export active energy (sharp) (Low Word)	0	R
Eq-IMP(sharp)	6036h	0.0~99999999.9kVARh	Import reactive energy (sharp) (High Word)	0	R
	6037h		Import reactive energy (sharp) (Low Word)	0	R
Eq-Exp(sharp)	6038h	0.0~99999999.9kVARh	Export reactive energy (sharp) (High Word)	0	R
	6039h		Export reactive energy (sharp) (Low Word)	0	R
Es(sharp)	603Ah	0.0~99999999.9kVAh	Apparent energy (sharp) (High Word)	0	R
	603Bh		Apparent energy (sharp) (Low Word)	0	R
Ep-IMP(peak)	603Ch	0.0~99999999.9kWh	Import active energy (peak) (High Word)	0	R
	603Dh		Import active energy (peak) (Low Word)	0	R
Ep-Exp(peak)	603Eh	0.0~99999999.9kWh	Export active energy (peak) (High Word)	0	R
	603Fh		Export active energy (peak) (Low Word)	0	R
Eq-IMP(peak)	6040h	0.0~99999999.9kVARh	Import reactive energy (peak) (High Word)	0	R
	6041h		Import reactive energy (peak) (Low Word)	0	R
Eq-Exp(peak)	6042h	0.0~99999999.9kVARh	Export reactive energy (peak) (High Word)	0	R
	6043h		Export reactive energy (peak) (Low Word)	0	R
Es(peak)	6044h	0.0~99999999.9kVAh	Apparent energy (peak) (High Word)	0	R
	6045h		Apparent energy (peak) (Low Word)	0	R
Ep-IMP(valley)	6046h	0.0~99999999.9kWh	Import active energy (valley) (High Word)	0	R
	6047h		Import active energy (valley) (Low Word)	0	R
Ep-Exp(valley)	6048h	0.0~99999999.9kWh	Export active energy (valley) (High Word)	0	R
	6049h		Export active energy (valley) (Low Word)	0	R
Eq-IMP(valley)	604Ah	0.0~99999999.9kVARh	Import reactive energy (valley) (High Word)	0	R
	604Bh		Import reactive energy (valley) (Low Word)	0	R
Eq-Exp(valley)	604Ch	0.0~99999999.9kVARh	Export reactive energy (valley) (High Word)	0	R
	604Dh		Export reactive energy (valley) (Low Word)	0	R
Es(valley)	604Eh	0.0~99999999.9kVAh	Apparent energy (valley) (High Word)	0	R
	604Fh		Apparent energy (valley) (Low Word)	0	R
Ep-IMP(normal)	6050h	0.0~99999999.9kWh	Import active energy (normal) (High Word)	0	R
	6051h		Import active energy (normal) (Low Word)	0	R
Ep-Exp(normal)	6052h	0.0~99999999.9kWh	Export active energy (normal) (High Word)	0	R
	6053h		Export active energy (normal) (Low Word)	0	R
Eq-IMP(normal)	6054h	0.0~99999999.9kVARh	Import reactive energy (normal) (High Word)	0	R
	6055h		Import reactive energy (normal) (Low Word)	0	R
Eq-Exp(normal)	6056h	0.0~99999999.9kVARh	Export reactive energy (normal) (High Word)	0	R
	6057h		Export reactive energy (normal) (Low Word)	0	R
Es(normal)	6058h	0.0~99999999.9kVAh	Apparent energy (normal) (High Word)	0	R
	6059h		Apparent energy (normal) (Low Word)	0	R
Ep-IMP(sum)	605Ah	0.0~99999999.9kWh	Import active energy (sum) (High Word)	0	R
	605Bh		Import active energy (sum) (Low Word)	0	R
Ep-Exp(sum)	605Ch	0.0~99999999.9kWh	Export active energy (sum) (High Word)	0	R
	605Dh		Export active energy (sum) (Low Word)	0	R
Eq-IMP(sum)	605EH	0.0~99999999.9kVARh	Import reactive energy (sum) (High Word)	0	R
	605Fh		Import reactive energy (sum) (Low Word)	0	R
Eq-Exp(sum)	6060h	0.0~99999999.9kVARh	Export reactive energy (sum) (High Word)	0	R
	6061h		Export reactive energy (sum) (Low Word)	0	R
Es(sum)	6062h	0.0~99999999.9kVAh	Apparent energy (sum) (High Word)	0	R
	6063h		Apparent energy (sum) (Low Word)	0	R

Maximum TOU energy demand (Code : 03h)

Parameter	Address	Range	Description	Default	Property
P.DM.MAX(sharp)	6064h	-999999999~999999999W	Maximum total active power demand (sharp) (High Word)	0	R
	6065h		Maximum total active power demand (sharp) (Low Word)	0	R
Year	6066h	2000~2099	Year	2015	R
Month	6067h	1~12	Month	1	R
Day	6068h	1~31	Day	1	R
Hour	6069h	0~23	Hour	0	R
Minute	606Ah	0~59	Minute	0	R
Second	606Bh	0~59	Second	0	R
Q.DM.MAX(sharp)	606Ch	-999999999~999999999VAR	Maximum total reactive power demand (sharp) and time stamp	0	R
	606Dh			0	R
Year	606Eh	2000~2099		2015	R
Month	606Fh	1~12		1	R
Day	6070h	1~31		1	R
Hour	6071h	0~23		0	R
Minute	6072h	0~59		0	R
Second	6073h	0~59		0	R
S.DM.MAX(sharp)	6074h	0~999999999VA	Maximum total apparent power demand (sharp) and time stamp	0	R
	6075h			0	R
Year	6076h	2000~2099		2015	R
Month	6077h	1~12		1	R
Day	6078h	1~31		1	R
Hour	6079h	0~23		0	R
Minute	607Ah	0~59		0	R
Second	607Bh	0~59		0	R
I1.DM.MAX(sharp)	607Ch	0.000~9999.999A	Maximum I1 current demand (sharp) and time stamp	0	R
	607Dh			0	R
Year	607Eh	2000~2099		2015	R
Month	607Fh	1~12		1	R
Day	6080h	1~31		1	R
Hour	6081h	0~23		0	R
Minute	6082h	0~59		0	R
Second	6083h	0~59		0	R
I2.DM.MAX(sharp)	6084h	0.000~9999.999A	Maximum I2 current demand (sharp) and time stamp	0	R
	6085h			0	R
Year	6086h	2000~2099		2015	R
Month	6087h	1~12		1	R
Day	6088h	1~31		1	R
Hour	6089h	0~23		0	R
Minute	608Ah	0~59		0	R
Second	608Bh	0~59		0	R
I3.DM.MAX(sharp)	608Ch	0.000~9999.999A	Maximum I3 current demand (sharp) and time stamp	0	R
	608Dh			0	R
Year	608Eh	2000~2099		2015	R
Month	608Fh	1~12		1	R
Day	6090h	1~31		1	R
Hour	6091h	0~23		0	R
Minute	6092h	0~59		0	R
Second	6093h	0~59		0	R
IAVG.DM.MAX (sharp)	6094h	0.000~9999.999A	Maximum average current demand (sharp) and time stamp	0	R
	6095h			0	R
Year	6096h	2000~2099		2015	R
Month	6097h	1~12		1	R
Day	6098h	1~31		1	R
Hour	6099h	0~23		0	R
Minute	609Ah	0~59		0	R
Second	609Bh	0~59		0	R
P.DM.MAX(peak)	609Ch	-999999999~999999999W	Maximum total active power demand (peak) and time stamp	0	R
	609Dh			0	R
Year	609Eh	2000~2099		2015	R
Month	609Fh	1~12		1	R
Day	60A0h	1~31		1	R
Hour	60A1h	0~23		0	R
Minute	60A2h	0~59		0	R
Second	60A3h	0~59		0	R

Parameter	Address	Range	Description	Default	Property
Q.DM.MAX(peak)	60A4h	-999999999~999999999VAR	Maximum total reactive power demand (peak) and time stamp	0	R
	60A5h			0	R
Year	60A6h	2000~2099		2015	R
Month	60A7h	1~12		1	R
Day	60A8h	1~31		1	R
Hour	60A9h	0~23		0	R
Minute	60AAh	0~59		0	R
Second	60ABh	0~59		0	R
S.DM.MAX(peak)	60ACh	0~999999999VA	Maximum total apparent power demand (peak) and time stamp	0	R
	60ADh			0	R
Year	60AEh	2000~2099		2015	R
Month	60AFh	1~12		1	R
Day	60B0h	1~31		1	R
Hour	60B1h	0~23		0	R
Minute	60B2h	0~59		0	R
Second	60B3h	0~59		0	R
I1.DM.MAX(peak)	60B4h	0.000~9999.999A	Maximum I1 current demand (peak) and time stamp	0	R
	60B5h			0	R
Year	60B6h	2000~2099		2015	R
Month	60B7h	1~12		1	R
Day	60B8h	1~31		1	R
Hour	60B9h	0~23		0	R
Minute	60BAh	0~59		0	R
Second	60BBh	0~59		0	R
I2.DM.MAX(peak)	60BCh	0.000~9999.999A	Maximum I2 current demand (peak) and time stamp	0	R
	60BDh			0	R
Year	60BEh	2000~2099		2015	R
Month	60BFh	1~12		1	R
Day	60C0h	1~31		1	R
Hour	60C1h	0~23		0	R
Minute	60C2h	0~59		0	R
Second	60C3h	0~59		0	R
I3.DM.MAX(peak)	60C4h	0.000~9999.999A	Maximum I3 current demand (peak) and time stamp	0	R
	60C5h			0	R
Year	60C6h	2000~2099		2015	R
Month	60C7h	1~12		1	R
Day	60C8h	1~31		1	R
Hour	60C9h	0~23		0	R
Minute	60CAh	0~59		0	R
Second	60CBh	0~59		0	R
IAVG.DM.MAX (peak)	60CCh	0.000~9999.999A	Maximum average current demand (peak) and time stamp	0	R
	60CDh			0	R
Year	60CEh	2000~2099		2015	R
Month	60CFh	1~12		1	R
Day	60D0h	1~31		1	R
Hour	60D1h	0~23		0	R
Minute	60D2h	0~59		0	R
Second	60D3h	0~59		0	R
P.DM.MAX(valley)	60D4h	-999999999~999999999W	Maximum total active power demand (valley) and time stamp	0	R
	60D5h			0	R
Year	60D6h	2000~2099		2015	R
Month	60D7h	1~12		1	R
Day	60D8h	1~31		1	R
Hour	60D9h	0~23		0	R
Minute	60DAh	0~59		0	R
Second	60DBh	0~59		0	R
Q.DM.MAX(valley)	60DCh	-999999999~999999999VAR	Maximum total reactive power demand (valley) and time stamp	0	R
	60DDh			0	R
Year	60DEh	2000~2099		2015	R
Month	60DFh	1~12		1	R
Day	60E0h	1~31		1	R
Hour	60E1h	0~23		0	R
Minute	60E2h	0~59		0	R
Second	60E3h	0~59		0	R

Parameter	Address	Range	Description	Default	Property
S.DM.MAX(valley)	60E4h	0~999999999VA	Maximum total apparent power demand (valley) and time stamp	0	R
	60E5h			0	R
Year	60E6h	2000~2099		2015	R
Month	60E7h	1~12		1	R
Day	60E8h	1~31		1	R
Hour	60E9h	0~23		0	R
Minute	60EAh	0~59		0	R
Second	60EBh	0~59		0	R
I1.DM.MAX(valley)	60ECh	0.000~9999.999A	Maximum I1 current demand (valley) and time stamp	0	R
	60EDh			0	R
Year	60EEh	2000~2099		2015	R
Month	60EFh	1~12		1	R
Day	60F0h	1~31		1	R
Hour	60F1h	0~23		0	R
Minute	60F2h	0~59		0	R
Second	60F3h	0~59		0	R
I2.DM.MAX(valley)	60F4h	0.000~9999.999A	Maximum I2 current demand (valley) and time stamp	0	R
	60F5h			0	R
Year	60F6h	2000~2099		2015	R
Month	60F7h	1~12		1	R
Day	60F8h	1~31		1	R
Hour	60F9h	0~23		0	R
Minute	60FAh	0~59		0	R
Second	60FBh	0~59		0	R
I3.DM.MAX(valley)	60FCh	0.000~9999.999A	Maximum I3 current demand (valley) and time stamp	0	R
	60FDh			0	R
Year	60FEh	2000~2099		2015	R
Month	60FFh	1~12		1	R
Day	6100h	1~31		1	R
Hour	6101h	0~23		0	R
Minute	6102h	0~59		0	R
Second	6103h	0~59		0	R
IAVG.DM.MAX (valley)	6104h	0.000~9999.999A	Maximum average current demand (valley) and time stamp	0	R
	6105h			0	R
Year	6106h	2000~2099		2015	R
Month	6107h	1~12		1	R
Day	6108h	1~31		1	R
Hour	6109h	0~23		0	R
Minute	610Ah	0~59		0	R
Second	610Bh	0~59		0	R
P.DM.MAX(normal)	610Ch	-999999999~999999999W	Maximum total active power demand (normal) and time stamp	0	R
	610Dh			0	R
Year	610Eh	2000~2099		2015	R
Month	610Fh	1~12		1	R
Day	6110h	1~31		1	R
Hour	6111h	0~23		0	R
Minute	6112h	0~59		0	R
Second	6113h	0~59		0	R
Q.DM.MAX(normal)	6114h	-999999999~999999999VAR	Maximum total reactive power demand (normal) and time stamp	0	R
	6115h			0	R
Year	6116h	2000~2099		2015	R
Month	6117h	1~12		1	R
Day	6118h	1~31		1	R
Hour	6119h	0~23		0	R
Minute	611AH	0~59		0	R
Second	611Bh	0~59		0	R
S.DM.MAX(normal)	611Ch	0~999999999VA	Maximum total apparent power demand (normal) and time stamp	0	R
	611Dh			0	R
Year	611Eh	2000~2099		2015	R
Month	611Fh	1~12		1	R
Day	6120h	1~31		1	R
Hour	6121h	0~23		0	R
Minute	6122h	0~59		0	R
Second	6123h	0~59		0	R

Parameter	Address	Range	Description	Default	Property
I1.DM.MAX (normal)	6124h	0.000~9999.999A	Maximum I1 current demand (normal) and time stamp	0	R
	6125h			0	R
Year	6126h	2000~2099		2015	R
Month	6127h	1~12		1	R
Day	6128h	1~31		1	R
Hour	6129h	0~23		0	R
Minute	612Ah	0~59		0	R
Second	612Bh	0~59		0	R
I2.DM.MAX (normal)	612Ch	0.000~9999.999A	Maximum I2 current demand (normal) and time stamp	0	R
	612Dh			0	R
Year	612Eh	2000~2099		2015	R
Month	612Fh	1~12		1	R
Day	6130h	1~31		1	R
Hour	6131h	0~23		0	R
Minute	6132h	0~59		0	R
Second	6133h	0~59		0	R
I3.DM.MAX (normal)	6134h	0.000~9999.999A	Maximum I3 current demand (normal) and time stamp	0	R
	6135h			0	R
Year	6136h	2000~2099		2015	R
Month	6137h	1~12		1	R
Day	6138h	1~31		1	R
Hour	6139h	0~23		0	R
Minute	613Ah	0~59		0	R
Second	613Bh	0~59		0	R
IAVG.DM.MAX (normal)	613Ch	0.000~9999.999A	Maximum average current demand (normal) and time stamp	0	R
	613Dh			0	R
Year	613Eh	2000~2099		2015	R
Month	613Fh	1~12		1	R
Day	6140h	1~31		1	R
Hour	6141h	0~23		0	R
Minute	6142h	0~59		0	R
Second	6143h	0~59		0	R
P.DM.MAX(sum)	6144h	-999999999~999999999W	Maximum total active power demand (sum) and time stamp	0	R
	6145h			0	R
Year	6146h	2000~2099		2015	R
Month	6147h	1~12		1	R
Day	6148h	1~31		1	R
Hour	6149h	0~23		0	R
Minute	614Ah	0~59		0	R
Second	614Bh	0~59		0	R
Q.DM.MAX(sum)	614Ch	-999999999~999999999VAR	Maximum total reactive power demand (sum) and time stamp	0	R
	614Dh			0	R
Year	614Eh	2000~2099		2015	R
Month	614Fh	1~12		1	R
Day	6150h	1~31		1	R
Hour	6151h	0~23		0	R
Minute	6152h	0~59		0	R
Second	6153h	0~59		0	R
S.DM.MAX(sum)	6154h	0~999999999VA	Maximum total apparent power demand (sum) and time stamp	0	R
	6155h			0	R
Year	6156h	2000~2099		2015	R
Month	6157h	1~12		1	R
Day	6158h	1~31		1	R
Hour	6159h	0~23		0	R
Minute	615Ah	0~59		0	R
Second	615Bh	0~59		0	R
I1.DM.MAX(sum)	615Ch	0.000~9999.999A	Maximum I1 current demand (sum) and time stamp	0	R
	615Dh			0	R
Year	615Eh	2000~2099		2015	R
Month	615Fh	1~12		1	R
Day	6160h	1~31		1	R
Hour	6161h	0~23		0	R
Minute	6162h	0~59		0	R
Second	6163h	0~59		0	R

Parameter	Address	Range	Description	Default	Property
I2.DM.MAX(sum)	6164h	0.000~9999.999A	Maximum I2 current demand (sum) and time stamp	0	R
	6165h			0	R
Year	6166h	2000~2099		2015	R
Month	6167h	1~12		1	R
Day	6168h	1~31		1	R
Hour	6169h	0~23		0	R
Minute	616Ah	0~59		0	R
Second	616Bh	0~59		0	R
I3.DM.MAX(sum)	616Ch	0.000~9999.999A	Maximum I3 current demand (sum) and time stamp	0	R
	616Dh			0	R
Year	616Eh	2000~2099		2015	R
Month	616Fh	1~12		1	R
Day	6170h	1~31		1	R
Hour	6171h	0~23		0	R
Minute	6172h	0~59		0	R
Second	6173h	0~59		0	R
IAVG.DM.MAX (sum)	6174h	0.000~9999.999A	Maximum average current demand (sum) and time stamp	0	R
	6175h			0	R
Year	6176h	2000~2099		2015	R
Month	6177h	1~12		1	R
Day	6178h	1~31		1	R
Hour	6179h	0~23		0	R
Minute	617Ah	0~59		0	R
Second	617Bh	0~59		0	R
Max DM Clear	617Ch	0 or 55h	0: None 55h: Reset	0	W

TOU parameter setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
Time zone	617Dh	1~4	Number of time zone	1	R/W
Time table	617Eh	1~8	Number of time table	1	R/W
Time table of Saturday	617Fh	1~8	Number of Saturday using time table	1	R/W
Time table of Sunday	6180h	1~8	Number of Sunday using time table	1	R/W
TOU enable	6181h	0~1	0: disable 1: enable	0	R/W
Initialization of TOU	6182h	0~1	0: disable 1: enable	0	R/W
Calculation of TOU	6183h	0~1	0: end of month 1: setting day	0	R/W
Date and time of caculation	6184h	1~31	Day	1	R/W
	6185h	0~23	Hour	0	R/W
	6186h	0~59	Minute	0	R/W
	6187h	0~59	Second	0	R/W
Error code	6188h	Refer to right	0: The setting of parameter is correct; if any error occurs , the TOU function will be stop execute 1: The date setting of the time zone is not a close cycle 2: The time table setting of the time zone is greater than number of time table 4: Year setting of multi-years error or greater than 5 years ;The time table setting of the multi-years is greater than number of time table 8: The time setting of the time interval is not a close cycle 16: The time table setting of the weekly rest is greater than number of time table 32: The time table setting of the single year holiday is greater than number of time table		R

Time zone setting parameters of TOU (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
1st time zone setting	6189h	1~12	Month	1	R/W
	618Ah	1~31	Day	1	
	618Bh	1~8	Time table of the 1st time zone	1	
2nd time zone setting	618Ch	1~12	Month	12	R/W
	618Dh	1~31	Day	31	
	618Eh	1~8	Time table of the 2nd time zone	1	
3rd time zone setting	618Fh	1~12	Month	12	R/W
	6190h	1~31	Day	31	
	6191h	1~8	Time table of the 3rd time zone	1	
4th time zone setting	6192h	1~12	Month	12	R/W
	6193h	1~31	Day	31	
	6194h	1~8	Time table of the 4th time zone	1	

Time table parameter of TOU (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
Time interval of 1st time table setting	6195h	1~8	Number of time interval in the 1st time table	1	R/W
	6196h	0~23	1st time interval of the 1st time table(hour)	0	R/W
	6197h	0~59	1st time interval of the 1st time table(minute)	0	
	6198h	0~3	1st time interval fee of the 1st time table 0: sharp 1: peak 2: valley 3: normal	0	
	6199h	0~23	2nd time interval and fee of the 1st time table	23	R/W
	619Ah	0~59		59	
	619Bh	0~3		0	
	619Ch	0~23	3rd time interval and fee of the 1st time table	23	R/W
	619Dh	0~59		59	
	619Eh	0~3		0	
	619Fh	0~23	4th time interval and fee of the 1st time table	23	R/W
	61A0h	0~59		59	
	61A1h	0~3		0	
	61A2h	0~23	5th time interval and fee of the 1st time table	23	R/W
	61A3h	0~59		59	
	61A4h	0~3		0	
	61A5h	0~23	6 th time interval and fee of the 1st time table	23	R/W
	61A6h	0~59		59	
	61A7h	0~3		0	
	61A8h	0~23	7th time interval and fee of the 1st time table	23	R/W
	61A9h	0~59		59	
	61AAh	0~3		0	
	61ABh	0~23	8th time interval and fee of the 1st time table	23	R/W
	61ACh	0~59		59	
	61ADh	0~3		0	
Time interval of 2nd time table setting	61AEh	1~8	1st~8th time interval and fee of the 2nd time table	1	R/W
	61AFh	0~23		0	R/W
	61B0h	0~59		0	
	61B1h	0~3		0	
	61B2h	0~23		23	R/W
	61B3h	0~59		59	
	61B4h	0~3		0	
	61B5h	0~23		23	R/W
	61B6h	0~59		59	
	61B7h	0~3		0	
	61B8h	0~23		23	R/W
	61B9h	0~59		59	
	61BAh	0~3		0	
	61BBh	0~23		23	R/W
	61BCh	0~59		59	
	61BDh	0~3		0	
	61BEh	0~23		23	R/W
	61BFh	0~59		59	
	61C0h	0~3		0	
	61C1h	0~23		23	R/W
	61C2h	0~59		59	
	61C3h	0~3		0	
	61C4h	0~23		23	R/W
	61C5h	0~59		59	
	61C6h	0~3		0	
Time interval of 3rd time table setting	61C7h	1~8	1st~8th time interval and fee of the 3rd time table	1	R/W
	61C8h	0~23		0	R/W
	61C9h	0~59		0	
	61CAh	0~3		0	
	61CBh	0~23		23	R/W
	61CCh	0~59		59	
	61CDh	0~3		0	
	61CEh	0~23		23	R/W
	61CFh	0~59		59	
	61D0h	0~3		0	
	61D1h	0~23		23	R/W
	61D2h	0~59		59	
	61D3h	0~3		0	

Parameter	Address	Range	Description	Default	Property
Time interval of 3rd time table setting	61D4h	0~23	1st~8th time interval and fee of the 3rd time table	23	R/W
	61D5h	0~59		59	
	61D6h	0~3		0	
	61D7h	0~23		23	R/W
	61D8h	0~59		59	
	61D9h	0~3		0	
	61DAh	0~23		23	R/W
	61DBh	0~59		59	
	61DCh	0~3		0	
	61DDh	0~23		23	R/W
	61DEh	0~59		59	
	61DFh	0~3		0	
Time interval of 4th time table setting	61E0h	1~8	1st~8th time interval and fee of the 4th time table	1	R/W
	61E1h	0~23		0	R/W
	61E2h	0~59		0	
	61E3h	0~3		0	
	61E4h	0~23		23	R/W
	61E5h	0~59		59	
	61E6h	0~3		0	
	61E7h	0~23		23	R/W
	61E8h	0~59		59	
	61E9h	0~3		0	
	61EAh	0~23		23	R/W
	61EBh	0~59		59	
	61ECh	0~3		0	
	61EDh	0~23		23	R/W
	61EEh	0~59		59	
	61EFh	0~3		0	
	61F0h	0~23		23	R/W
	61F1h	0~59		59	
	61F2h	0~3		0	
	61F3h	0~23		23	R/W
	61F4h	0~59		59	
	61F5h	0~3		0	
	61F6h	0~23		23	R/W
	61F7h	0~59		59	
	61F8h	0~3		0	
Time interval of 5th time table setting	61F9h	1~8	1st~8th time interval and fee of the 5th time table	1	R/W
	61FAh	0~23		0	R/W
	61FBh	0~59		0	
	61FCh	0~3		0	
	61FDh	0~23		23	R/W
	61FEh	0~59		59	
	61FFh	0~3		0	
	6200h	0~23		23	R/W
	6201h	0~59		59	
	6202h	0~3		0	
	6203h	0~23		23	R/W
	6204h	0~59		59	
	6205h	0~3		0	
	6206h	0~23		23	R/W
	6207h	0~59		59	
	6208h	0~3		0	
	6209h	0~23		23	R/W
	620Ah	0~59		59	
	620Bh	0~3		0	
	620Ch	0~23		23	R/W
	620Dh	0~59		59	
	620Eh	0~3		0	
	620Fh	0~23		23	R/W
	6210h	0~59		59	
	6211h	0~3		0	

Parameter	Address	Range	Description	Default	Property
Time interval of 6th time table setting	6212h	1~8	1st~8th time interval and fee of the 6th time table	1	R/W
	6213h	0~23		0	R/W
	6214h	0~59		0	
	6215h	0~3		0	
	6216h	0~23		23	R/W
	6217h	0~59		59	
	6218h	0~3		0	
	6219h	0~23		23	R/W
	621Ah	0~59		59	
	621Bh	0~3		0	
	621Ch	0~23		23	R/W
	621Dh	0~59		59	
	621Eh	0~3		0	
	621Fh	0~23		23	R/W
	6220h	0~59		59	
	6221h	0~3		0	
	6222h	0~23		23	R/W
	6223h	0~59		59	
	6224h	0~3		0	
	6225h	0~23		23	R/W
	6226h	0~59		59	
	6227h	0~3		0	
	6228h	0~23		23	R/W
	6229h	0~59		59	
	622Ah	0~3		0	
Time interval of 7th time table setting	622Bh	1~8	1st~8th time interval and fee of the 7th time table	1	R/W
	622Ch	0~23		0	R/W
	622Dh	0~59		0	
	622Eh	0~3		0	
	622Fh	0~23		23	R/W
	6230h	0~59		59	
	6231h	0~3		0	
	6232h	0~23		23	R/W
	6233h	0~59		59	
	6234h	0~3		0	
	6235h	0~23		23	R/W
	6236h	0~59		59	
	6237h	0~3		0	
	6238h	0~23		23	R/W
	6239h	0~59		59	
	623Ah	0~3		0	
	623Bh	0~23		23	R/W
	623Ch	0~59		59	
	623Dh	0~3		0	
	623Eh	0~23		23	R/W
	623Fh	0~59		59	
	6240h	0~3		0	
	6241h	0~23		23	R/W
	6242h	0~59		59	
	6243h	0~3		0	
Time interval of 8th time table setting	6244h	1~8	1st~8th time interval and fee of the 8th time table	1	R/W
	6245h	0~23		0	R/W
	6246h	0~59		0	
	6247h	0~3		0	
	6248h	0~23		23	R/W
	6249h	0~59		59	
	624Ah	0~3		0	
	624Bh	0~23		23	R/W
	624Ch	0~59		59	
	624Dh	0~3		0	
	624Eh	0~23		23	R/W
	624Fh	0~59		59	
	6250h	0~3		0	

Parameter	Address	Range	Description	Default	Property
Time interval of 8th time table setting	6251h	0~23	1st~8th time interval and fee of the 8th time table	23	R/W
	6252h	0~59		59	
	6253h	0~3		0	
	6254h	0~23		23	R/W
	6255h	0~59		59	
	6256h	0~3		0	
	6257h	0~23		23	R/W
	6258h	0~59		59	
	6259h	0~3		0	
	625Ah	0~23		23	R/W
	625Bh	0~59		59	
	625Ch	0~3		0	

Special day parameter of TOU (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
Multi-years	625Dh	0~1	0: disable 1: enable	1	R/W
	625Eh	2000~2099	Start year of multi-years(1 < (End year - Start year)+1 ≦ 5)	2015	R/W
	625Fh	2000~2099	End year of multi-years	2015	R/W
Number of holiday	6260h	0~20	Number of holiday in a year	0	R/W
1st holiday	6261h	1~12	Date of the1st holiday (month)	1	R/W
	6262h	1~31	Date of the1st holiday (Day)	1	
	6263h	1~8	Time table of the1 st holiday	1	
2nd holiday	6264h	1~12	Date and the time table of the 2nd holiday	1	R/W
	6265h	1~31		1	
	6266h	1~8		1	
3rd holiday	6267h	1~12	Date and the time table of the 3rd holiday	1	R/W
	6268h	1~31		1	
	6269h	1~8		1	
4th holiday	626Ah	1~12	Date and the time table of the 4th holiday	1	R/W
	626Bh	1~31		1	
	626Ch	1~8		1	
5th holiday	626Dh	1~12	Date and the time table of the 5th holiday	1	R/W
	626Eh	1~31		1	
	626Fh	1~8		1	
6th holiday	6270h	1~12	Date and the time table of the 6th holiday	1	R/W
	6271h	1~31		1	
	6272h	1~8		1	
7th holiday	6273h	1~12	Date and the time table of the 7th holiday	1	R/W
	6274h	1~31		1	
	6275h	1~8		1	
8th holiday	6276h	1~12	Date and the time table of the 8th holiday	1	R/W
	6277h	1~31		1	
	6278h	1~8		1	
9th holiday	6279h	1~12	Date and the time table of the 9th holiday	1	R/W
	627Ah	1~31		1	
	627Bh	1~8		1	
10th holiday	627Ch	1~12	Date and the time table of the 10th holiday	1	R/W
	627Dh	1~31		1	
	627Eh	1~8		1	
11th holiday	627Fh	1~12	Date and the time table of the 11th holiday	1	R/W
	6280h	1~31		1	
	6281h	1~8		1	
12th holiday	6282h	1~12	Date and the time table of the 12th holiday	1	R/W
	6283h	1~31		1	
	6284h	1~8		1	
13th holiday	6285h	1~12	Date and the time table of the 13th holiday	1	R/W
	6286h	1~31		1	
	6287h	1~8		1	
14th holiday	6288h	1~12	Date and the time table of the 14th holiday	1	R/W
	6289h	1~31		1	
	628Ah	1~8		1	
15th holiday	628Bh	1~12	Date and the time table of the 15th holiday	1	R/W
	628Ch	1~31		1	
	628Dh	1~8		1	
16th holiday	628Eh	1~12	Date and the time table of the 16th holiday	1	R/W
	628Fh	1~31		1	
	6290h	1~8		1	
17th holiday	6291h	1~12	Date and the time table of the 17th holiday	1	R/W
	6292h	1~31		1	
	6293h	1~8		1	
18th holiday	6294h	1~12	Date and the time table of the 18th holiday	1	R/W
	6295h	1~31		1	
	6296h	1~8		1	
19th holiday	6297h	1~12	Date and the time table of the 19th holiday	1	R/W
	6298h	1~31		1	
	6299h	1~8		1	
20th holiday	629Ah	1~12	Date and the time table of the 20th holiday	1	R/W
	629Bh	1~31		1	
	629Ch	1~8		1	

The 1st year holiday setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
1st year	629Dh	2000~2099	Setup of 1st year	2015	R/W
Number of holiday	629Eh	0~20	Number of holiday for the 1st year	0	R/W
1st holiday	629Fh	1~12	Date of the 1st holiday (month)	1	R/W
	62A0h	1~31	Date of the 1st holiday (day)	1	
	62A1h	1~8	Time table of the 1st holiday	1	
2nd holiday	62A2h	1~12	Date and the time table of the 2nd holiday	1	R/W
	62A3h	1~31		1	
	62A4h	1~8		1	
3rd holiday	62A5h	1~12	Date and the time table of the 3rd holiday	1	R/W
	62A6h	1~31		1	
	62A7h	1~8		1	
4th holiday	62A8h	1~12	Date and the time table of the 4th holiday	1	R/W
	62A9h	1~31		1	
	62AAh	1~8		1	
5th holiday	62ABh	1~12	Date and the time table of the 5th holiday	1	R/W
	62ACh	1~31		1	
	62ADh	1~8		1	
6th holiday	62AEh	1~12	Date and the time table of the 6th holiday	1	R/W
	62AFh	1~31		1	
	62B0h	1~8		1	
7th holiday	62B1h	1~12	Date and the time table of the 7th holiday	1	R/W
	62B2h	1~31		1	
	62B3h	1~8		1	
8th holiday	62B4h	1~12	Date and the time table of the 8th holiday	1	R/W
	62B5h	1~31		1	
	62B6h	1~8		1	
9th holiday	62B7h	1~12	Date and the time table of the 9th holiday	1	R/W
	62B8h	1~31		1	
	62B9h	1~8		1	
10th holiday	62BAh	1~12	Date and the time table of the 10th holiday	1	R/W
	62BBh	1~31		1	
	62BCh	1~8		1	
11th holiday	62BDh	1~12	Date and the time table of the 11th holiday	1	R/W
	62BEh	1~31		1	
	62BFh	1~8		1	
12th holiday	62C0h	1~12	Date and the time table of the 12th holiday	1	R/W
	62C1h	1~31		1	
	62C2h	1~8		1	
13th holiday	62C3h	1~12	Date and the time table of the 13th holiday	1	R/W
	62C4h	1~31		1	
	62C5h	1~8		1	
14th holiday	62C6h	1~12	Date and the time table of the 14th holiday	1	R/W
	62C7h	1~31		1	
	62C8h	1~8		1	
15th holiday	62C9h	1~12	Date and the time table of the 15th holiday	1	R/W
	62CAh	1~31		1	
	62CBh	1~8		1	
16th holiday	62CCh	1~12	Date and the time table of the 16th holiday	1	R/W
	62CDh	1~31		1	
	62CEh	1~8		1	
17th holiday	62CFh	1~12	Date and the time table of the 17th holiday	1	R/W
	62D0h	1~31		1	
	62D1h	1~8		1	
18th holiday	62D2h	1~12	Date and the time table of the 18th holiday	1	R/W
	62D3h	1~31		1	
	62D4h	1~8		1	
19th holiday	62D5h	1~12	Date and the time table of the 19th holiday	1	R/W
	62D6h	1~31		1	
	62D7h	1~8		1	
20th holiday	62D8h	1~12	Date and the time table of the 20th holiday	1	R/W
	62D9h	1~31		1	
	62DAh	1~8		1	

The 2nd year holiday setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
2nd year	62DBh	2000~2099	Parameters setting of 2nd year holidays	2015	R/W
Number of holiday	62DCh	0~20		0	R/W
1st holiday	62DDh	1~12		1	R/W
	62DEh	1~31		1	
	62DFh	1~8		1	
2nd holiday	62E0h	1~12		1	R/W
	62E1h	1~31		1	
	62E2h	1~8		1	
3rd holiday	62E3h	1~12		1	R/W
	62E4h	1~31		1	
	62E5h	1~8		1	
4th holiday	62E6h	1~12		1	R/W
	62E7h	1~31		1	
	62E8h	1~8		1	
5th holiday	62E9h	1~12		1	R/W
	62EAh	1~31		1	
	62EBh	1~8		1	
6th holiday	62ECh	1~12		1	R/W
	62EDh	1~31		1	
	62EEh	1~8		1	
7th holiday	62EFh	1~12		1	R/W
	62F0h	1~31		1	
	62F1h	1~8		1	
8th holiday	62F2h	1~12		1	R/W
	62F3h	1~31		1	
	62F4h	1~8		1	
9th holiday	62F5h	1~12		1	R/W
	62F6h	1~31		1	
	62F7h	1~8		1	
10th holiday	62F8h	1~12		1	R/W
	62F9h	1~31		1	
	62FAh	1~8		1	
11th holiday	62FBh	1~12		1	R/W
	62FCh	1~31		1	
	62FDH	1~8		1	
12th holiday	62FEh	1~12		1	R/W
	62FFh	1~31		1	
	6300h	1~8		1	
13th holiday	6301h	1~12		1	R/W
	6302h	1~31		1	
	6303h	1~8		1	
14th holiday	6304h	1~12		1	R/W
	6305h	1~31		1	
	6306h	1~8		1	
15th holiday	6307h	1~12		1	R/W
	6308h	1~31		1	
	6309h	1~8		1	
16th holiday	630Ah	1~12		1	R/W
	630Bh	1~31		1	
	630Ch	1~8		1	
17th holiday	630Dh	1~12		1	R/W
	630Eh	1~31		1	
	630Fh	1~8		1	
18th holiday	6310h	1~12		1	R/W
	6311h	1~31		1	
	6312h	1~8		1	
19th holiday	6313h	1~12		1	R/W
	6314h	1~31		1	
	6315h	1~8		1	
20th holiday	6316h	1~12		1	R/W
	6317h	1~31		1	
	6318h	1~8		1	

The 3rd year holiday setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
3rd year	6319h	2000~2099	Parameters setting of 3rd year holidays	2015	R/W
Number of holiday	631Ah	0~20		0	R/W
1st holiday	631Bh	1~12		1	R/W
	631Ch	1~31		1	
	631Dh	1~8		1	
2nd holiday	631Eh	1~12		1	R/W
	631Fh	1~31		1	
	6320h	1~8		1	
3rd holiday	6321h	1~12		1	R/W
	6322h	1~31		1	
	6323h	1~8		1	
4th holiday	6324h	1~12		1	R/W
	6325h	1~31		1	
	6326h	1~8		1	
5th holiday	6327h	1~12		1	R/W
	6328h	1~31		1	
	6329h	1~8		1	
6th holiday	632Ah	1~12		1	R/W
	632Bh	1~31		1	
	632Ch	1~8		1	
7th holiday	632Dh	1~12		1	R/W
	632Eh	1~31		1	
	632Fh	1~8		1	
8th holiday	6330h	1~12		1	R/W
	6331h	1~31		1	
	6332h	1~8		1	
9th holiday	6333h	1~12		1	R/W
	6334h	1~31		1	
	6335h	1~8		1	
10th holiday	6336h	1~12		1	R/W
	6337h	1~31		1	
	6338h	1~8		1	
11th holiday	6339h	1~12		1	R/W
	633Ah	1~31		1	
	633Bh	1~8		1	
12th holiday	633Ch	1~12		1	R/W
	633Dh	1~31		1	
	633Eh	1~8		1	
13th holiday	633Fh	1~12		1	R/W
	6340h	1~31		1	
	6341h	1~8		1	
14th holiday	6342h	1~12		1	R/W
	6343h	1~31		1	
	6344h	1~8		1	
15th holiday	6345h	1~12		1	R/W
	6346h	1~31		1	
	6347h	1~8		1	
16th holiday	6348h	1~12		1	R/W
	6349h	1~31		1	
	634Ah	1~8		1	
17th holiday	634Bh	1~12		1	R/W
	634Ch	1~31		1	
	634Dh	1~8		1	
18th holiday	634Eh	1~12		1	R/W
	634Fh	1~31		1	
	6350h	1~8		1	
19th holiday	6351h	1~12		1	R/W
	6352h	1~31		1	
	6353h	1~8		1	
20th holiday	6354h	1~12		1	R/W
	6355h	1~31		1	
	6356h	1~8		1	

The 4th year holiday setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
4th year	6357h	2000~2099	Parameters setting of 4th year holidays	2015	R/W
Number of holiday	6358h	0~20		0	R/W
1st holiday	6359h	1~12		1	R/W
	635Ah	1~31		1	
	635Bh	1~8		1	
2nd holiday	635Ch	1~12		1	R/W
	635Dh	1~31		1	
	635Eh	1~8		1	
3rd holiday	635Fh	1~12		1	R/W
	6360h	1~31		1	
	6361h	1~8		1	
4th holiday	6362h	1~12		1	R/W
	6363h	1~31		1	
	6364h	1~8		1	
5th holiday	6365h	1~12		1	R/W
	6366h	1~31		1	
	6367h	1~8		1	
6th holiday	6368h	1~12		1	R/W
	6369h	1~31		1	
	636Ah	1~8		1	
7th holiday	636Bh	1~12		1	R/W
	636Ch	1~31		1	
	636Dh	1~8		1	
8th holiday	636Eh	1~12		1	R/W
	636Fh	1~31		1	
	6370h	1~8		1	
9th holiday	6371h	1~12		1	R/W
	6372h	1~31		1	
	6373h	1~8		1	
10th holiday	6374h	1~12		1	R/W
	6375h	1~31		1	
	6376h	1~8		1	
11th holiday	6377h	1~12		1	R/W
	6378h	1~31		1	
	6379h	1~8		1	
12th holiday	637Ah	1~12		1	R/W
	637Bh	1~31		1	
	637Ch	1~8		1	
13th holiday	637Dh	1~12		1	R/W
	637Eh	1~31		1	
	637Fh	1~8		1	
14th holiday	6380h	1~12		1	R/W
	6381h	1~31		1	
	6382h	1~8		1	
15th holiday	6383h	1~12		1	R/W
	6384h	1~31		1	
	6385h	1~8		1	
16th holiday	6386h	1~12		1	R/W
	6387h	1~31		1	
	6388h	1~8		1	
17th holiday	6389h	1~12		1	R/W
	638Ah	1~31		1	
	638Bh	1~8		1	
18th holiday	638Ch	1~12		1	R/W
	638Dh	1~31		1	
	638Eh	1~8		1	
19th holiday	638Fh	1~12		1	R/W
	6390h	1~31		1	
	6391h	1~8		1	
20th holiday	6392h	1~12		1	R/W
	6393h	1~31		1	
	6394h	1~8		1	

The 5th year holiday setting (Code : 03h , 06h , 10h)

Parameter	Address	Range	Description	Default	Property
5th year	6395h	2000~2099	Parameters setting of 5th year holidays	2015	R/W
Number of holiday	6396h	0~20		0	R/W
1st holiday	6397h	1~12		1	R/W
	6398h	1~31		1	
	6399h	1~8		1	
2nd holiday	639Ah	1~12		1	R/W
	639Bh	1~31		1	
	639Ch	1~8		1	
3rd holiday	639Dh	1~12		1	R/W
	639Eh	1~31		1	
	639Fh	1~8		1	
4th holiday	63A0h	1~12		1	R/W
	63A1h	1~31		1	
	63A2h	1~8		1	
5th holiday	63A3h	1~12		1	R/W
	63A4h	1~31		1	
	63A5h	1~8		1	
6th holiday	63A6h	1~12		1	R/W
	63A7h	1~31		1	
	63A8h	1~8		1	
7th holiday	63A9h	1~12		1	R/W
	63AAh	1~31		1	
	63ABh	1~8		1	
8th holiday	63ACh	1~12		1	R/W
	63ADh	1~31		1	
	63AEh	1~8		1	
9th holiday	63AFh	1~12		1	R/W
	63B0h	1~31		1	
	63B1h	1~8		1	
10th holiday	63B2h	1~12		1	R/W
	63B3h	1~31		1	
	63B4h	1~8		1	
11th holiday	63B5h	1~12		1	R/W
	63B6h	1~31		1	
	63B7h	1~8		1	
12th holiday	63B8h	1~12		1	R/W
	63B9h	1~31		1	
	63BAh	1~8		1	
13th holiday	63BBh	1~12		1	R/W
	63BCh	1~31		1	
	63BDh	1~8		1	
14th holiday	63BEh	1~12		1	R/W
	63BFh	1~31		1	
	63C0h	1~8		1	
15th holiday	63C1h	1~12		1	R/W
	63C2h	1~31		1	
	63C3h	1~8		1	
16th holiday	63C4h	1~12		1	R/W
	63C5h	1~31		1	
	63C6h	1~8		1	
17th holiday	63C7h	1~12		1	R/W
	63C8h	1~31		1	
	63C9h	1~8		1	
18th holiday	63CAh	1~12		1	R/W
	63CBh	1~31		1	
	63CCh	1~8		1	
19th holiday	63CDh	1~12		1	R/W
	63CEh	1~31		1	
	63CFh	1~8		1	
20th holiday	63D0h	1~12		1	R/W
	63D1h	1~31		1	
	63D2h	1~8		1	

Floating data (Code : 03h)

Parameter	Address	Range	Description	Default	Property
FREQ	7000h 7001h	45.00~65.00Hz	Frequency		R
U1	7002h 7003h	0.0 ~1200000.0V	Phase1 voltage		R
U2	7004h 7005h	0.0 ~1200000.0V	Phase2 voltage		R
U3	7006h 7007h	0.0 ~1200000.0V	Phase3 voltage		R
ULN.AVG	7008h 7009h	0.0 ~1200000.0V	Average phase voltage		R
U12	700Ah 700Bh	0.0 ~1200000.0V	Phase1 line voltage		R
U23	700Ch 700Dh	0.0 ~1200000.0V	Phase2 line voltage		R
U31	700Eh 700Fh	0.0 ~1200000.0V	Phase3 line voltage		R
ULL.AVG	7010h 7011h	0.0 ~1200000.0V	Average line voltage		R
I1	7012h 7013h	0.000~9999.000A	I1 current		R
I2	7014h 7015h	0.000~9999.000A	I2 current		R
I3	7016h 7017h	0.000~9999.000A	I3 current		R
I.AVG	7018h 7019h	0.000~9999.000A	Average current		R
IN	701Ah 701Bh	0.000~9999.000A	Neutral current		R
P-1	701Ch 701Dh	-999999999~999999999W	Phase1 active power		R
P-2	701Eh 701Fh	-999999999~999999999W	Phase2 active power		R
P-3	7020h 7021h	-999999999~999999999W	Phase3 active power		R
P.SUM	7022h 7023h	-999999999~999999999W	Total active power		R
Q-1	7024h 7025h	-999999999~999999999VAR	Phase1 reactive power		R
Q-2	7026h 7027h	-999999999~999999999VAR	Phase2 reactive power		R
Q-3	7028h 7029h	-999999999~999999999VAR	Phase3 reactive power		R
Q.SUM	702Ah 702Bh	-999999999~999999999VAR	Total reactive power		R
S-1	702Ch 702Dh	0~999999999VA	Phase1 apparent power		R
S-2	702Eh 702Fh	0~999999999VA	Phase2 apparent power		R
S-3	7030h 7031h	0~999999999VA	Phase3 apparent power		R
S.SUM	7032h 7033h	0~999999999VA	Total apparent power		R
PF1	7034h 7035h	-0.020~-/+1.000~0.020	Phase1 power factor		R
PF2	7036h 7037h	-0.020~-/+1.000~0.020	Phase2 power factor		R
PF3	7038h 7039h	-0.020~-/+1.000~0.020	Phase3 power factor		R
PF.AVG	703Ah 703Bh	-0.020~-/+1.000~0.020	Average power factor		R
Uunbl	703Ch 703Dh	0~300.0%	Voltage unbalance		R
Iunbl	703Eh 703Fh	0~300.0%	Current unbalance		R

Parameter	Address	Range	Description	Default	Property
P.DM.	7042h 7043h	-999999999~999999999W	Total active power demand		R
Q.DM.	7044h 7045h	-999999999~999999999VAR	Total reactive power demand		R
S.DM.	7046h 7047h	0~999999999VA	Total apparent power demand		R
I1.DM.	7048h 7049h	0.000~9999.999A	I1 current demand		R
I2.DM.	704Ah 704Bh	0.000~9999.999A	I2 current demand		R
I3.DM.	704Ch 704Dh	0.000~9999.999A	I3 current demand		R
I.AVG.DM.	704Eh 704Fh	0.000~9999.999A	I3 current demand		R
U1(U12).THD	7050h 7051h	0.0~100.0%	U1(U12) total harmonic of voltage		R
U2(U23).THD	7052h 7053h	0.0~100.0%	U2(U23) total harmonic of voltage		R
U3(U31).THD	7054h 7055h	0.0~100.0%	U3(U31) total harmonic of voltage		R
UAVG.THD	7056h 7057h	0.0~100.0%	Average total harmonic of voltage		R
I1.THD	7058h 7059h	0.0~100.0%	I1 total harmonic of current		R
I2.THD	705Ah 705Bh	0.0~100.0%	I2 total harmonic of current		R
I3.THD	705Ch 705Dh	0.0~100.0%	I3 total harmonic of current		R
IAVG.THD	705Eh 705Fh	0.0~100.0%	Average total harmonic of current		R
kWh-IMP	7060h 7061h	0.0~9999999.9kWh	Import active energy		R
kWh-Exp	7062h 7063h	0.0~9999999.9kWh	Export active energy		R
kWh-Total	7064h 7065h	0.0~9999999.9kWh	Export active energy		R
kWh-Net	7066h 7067h	-999999.9~9999999.9kWh	Net active energy		R
kVARh-IMP	7068h 7069h	0.0~9999999.9kVARh	Import reactive energy		R
kVARh-Exp	706Ah 706Bh	0.0~9999999.9kVARh	Export reactive energy		R
kVARh-Total	706Ch 706Dh	0.0~9999999.9kVARh	Total reactive energy		R
kVARh-Net	706Eh 706Fh	-999999.9~9999999.9kVARh	Net reactive energy		R
kVAh-Total	7070h 7071h	0.0~9999999.9kVAh	Total apparent energy		R
CO_2	7072h 7073h	0.000~99999.999kg	Total CO_2 weight of energy		R