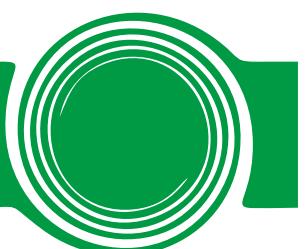


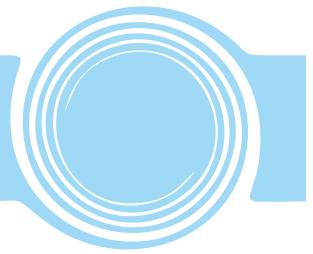


AEM-DR Manual

Multi-Loop Power Meter



AEM-DR MANUAL



■ Description

Provide high accuracy measurement, display and remote communication of single phase & three phase parameters (V, A, P, Q, S, PF, Hz, Kwh). Multi-circuit design and relay output modular expansion design decrease the overall cost and make the functionality more flexible. All monitored data is available via a RS485 serial ,PLC communication for the needs in energy management, alarming, and remote controlling. Embedded flash memory for Data-Logging can avoid any data missing once the communication is interrupted. Moreover, its ultra compact size DIN-rail mounting makes itself mountable in virtually any panel, enclosure or indoor Cabinet.



■ Applications

- Rental Building Electricity Charging Management
- Market/Vender/Stand Electricity Charging Management
- Rental Apartment Electricity Charging Management
- Distributed Generation Electricity Charging Management
- Booth Electricity Charging Management
- Dormitory Electricity Charging Management

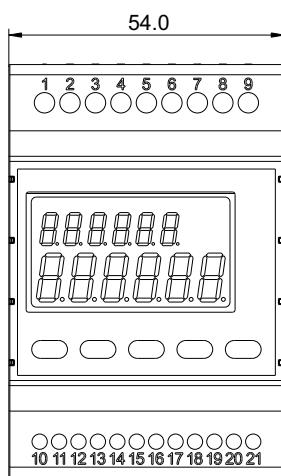
Panel Description

Key definition (from left to right)

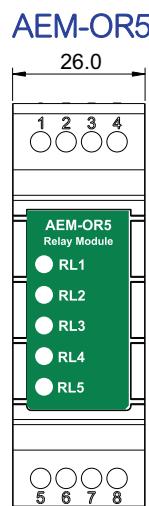


- [ENT] Enter(confirmation) / [FUN]
- [◀] Left(left shift) / [ESC] (Leave)
- [▶] Right(right shift) / [Energy] (Energy)
- [▲] Up(Move) / INC(Addition) / [Power] (Power)
- [▼] Down(Down) / DEC(Reduce) / [Volt/Amp] (Voltage \ current)

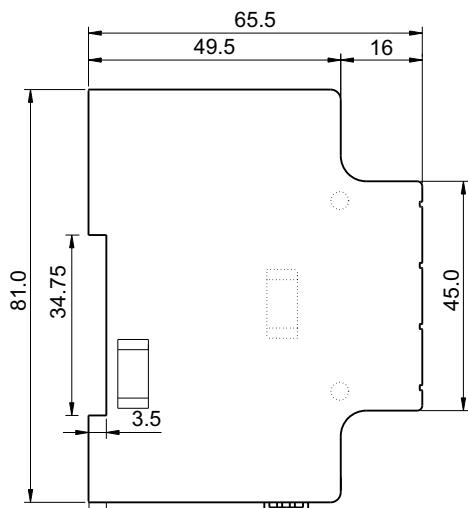
Exterior dimensions



Host computer



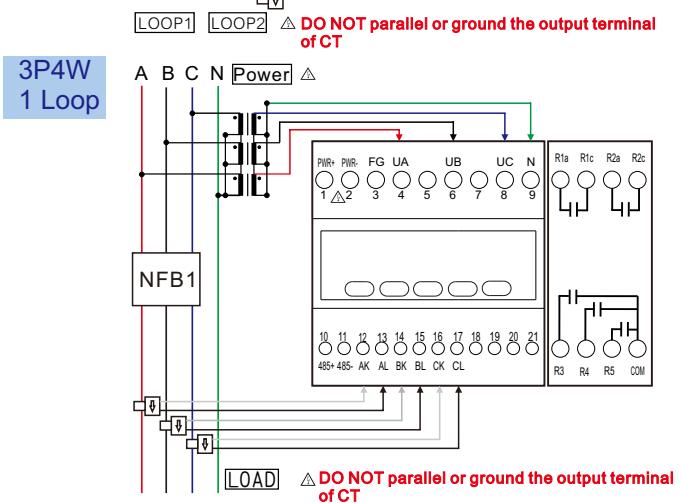
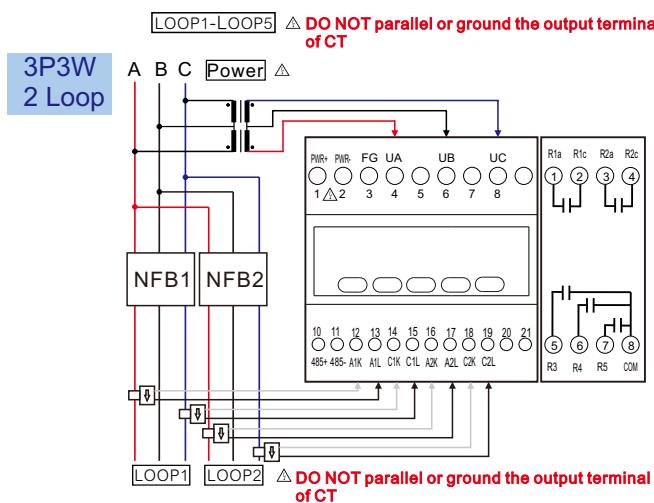
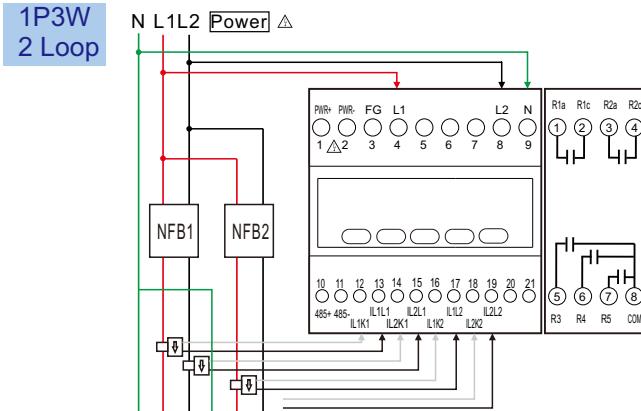
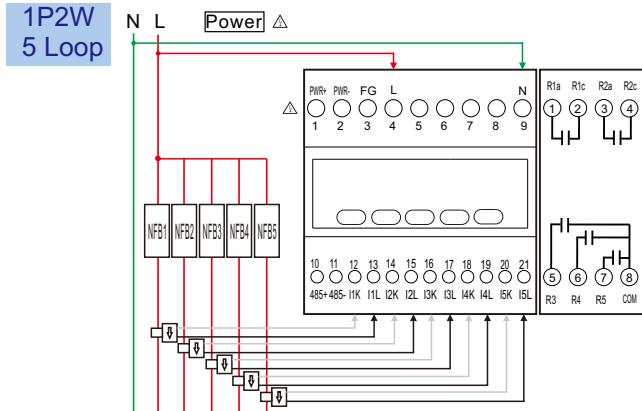
Relay Modules



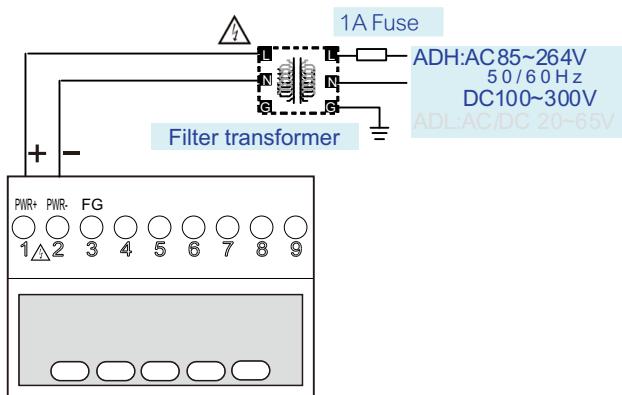
Unit:mm

■ Wiring Diagram

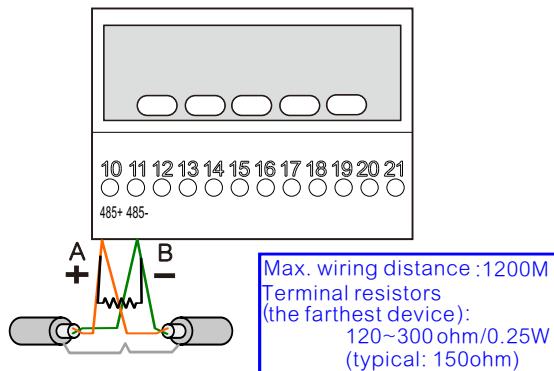
(Secondary output wire of CT must be wiring separately as protection.
DO NOT parallel or ground.)



Power Supply



RS485 Communication Port



Normal screen by the operation of the function keys on the following version



Press the the button on the following version can review each phase line
Circuit voltage and current measurement value, the flow picture
Page 4 to 6 of process description



Press the the button on the following version can review each phase lineThe measured values of the circuit in the power, process screen
7 to 10 of process description



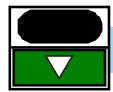
Press the the button on the following version can review each loop The measured values of the energy flow picture, such as Page 11
Process Description



Press the the button on the following version more than a second or more, Set the relay parameter values, Flow picture described processes such as Page 11

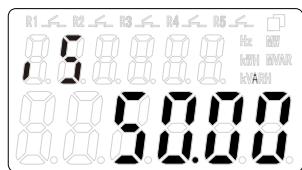
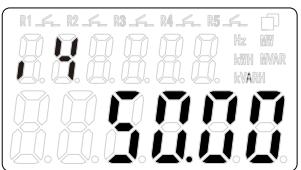
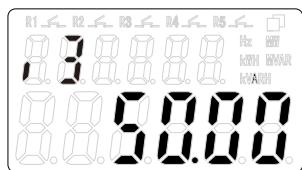
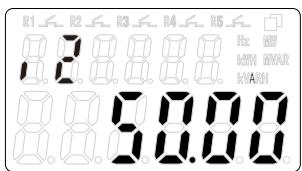
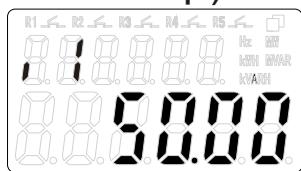
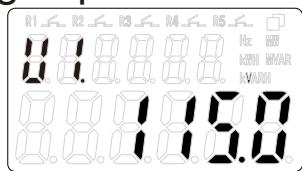
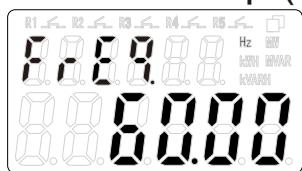


Before use to understand the function of individual keys, in order to achieve the best possible mode of operation

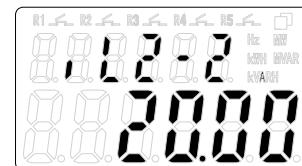
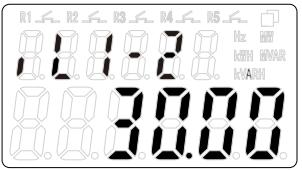
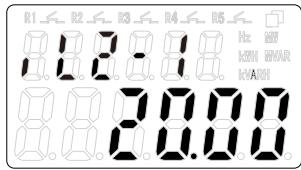
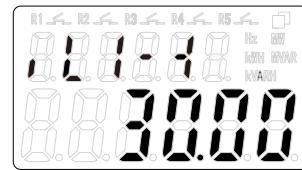
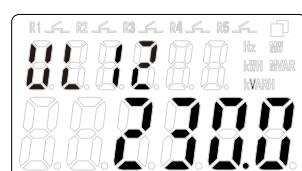
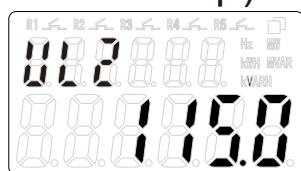
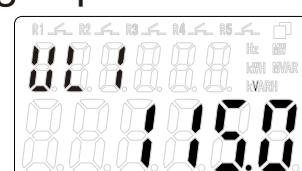
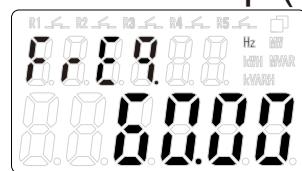


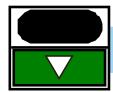
Volt/Amp (Voltage \ Current) Measurement screen

● 1P2W 5Loop (Single-phase two-wire five-loop)



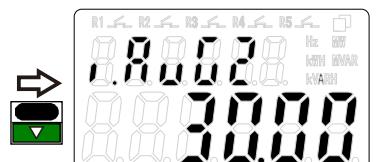
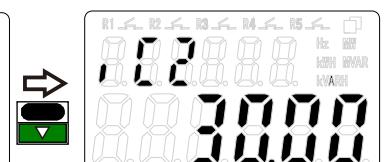
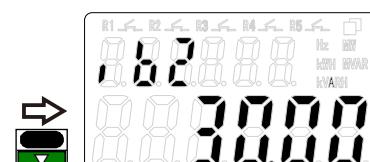
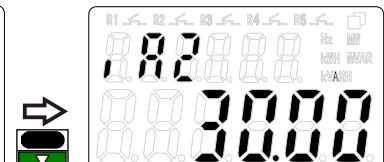
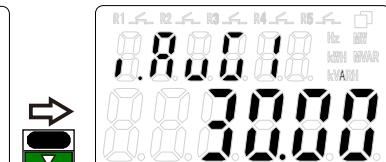
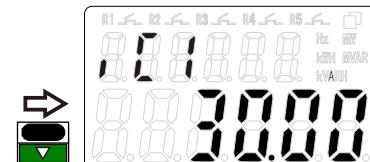
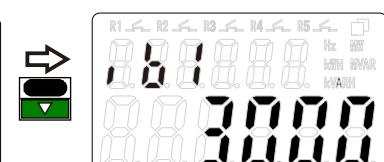
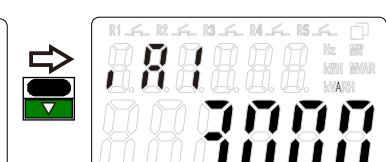
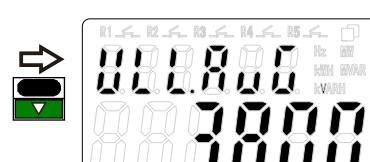
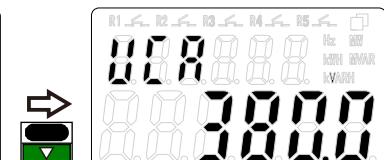
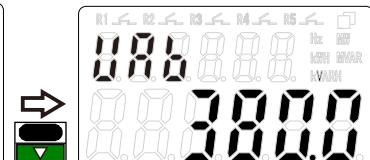
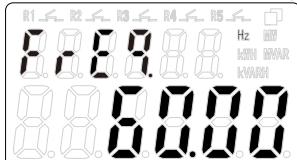
● 1P3W 2Loop (Single-phase three-wire two-loop)

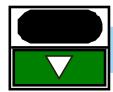




Volt/Amp (Voltage \ Current) Measurement screen

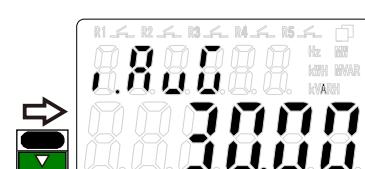
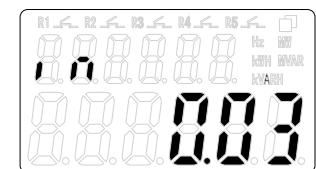
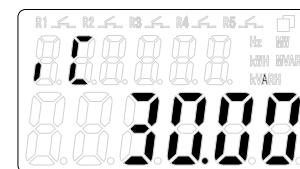
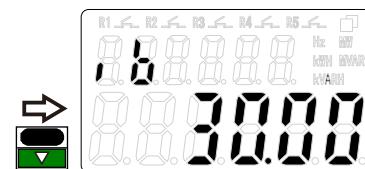
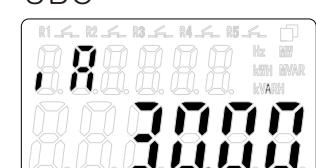
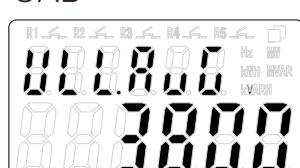
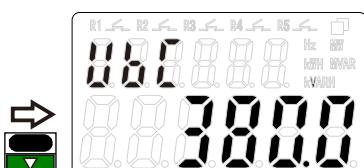
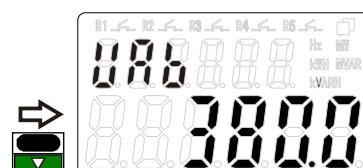
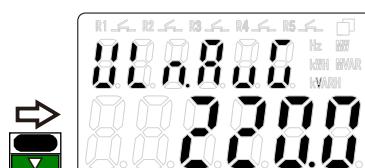
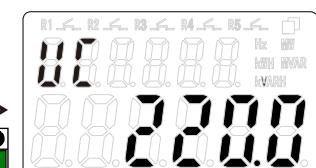
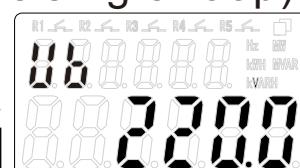
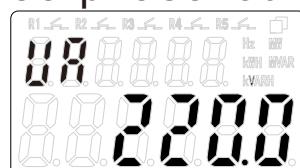
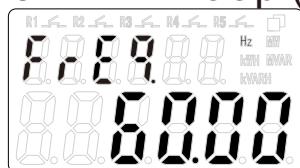
3P3W 2Loop (Three-phase three-wire two-loop)

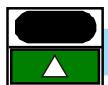




Volt/Amp (Voltage、Current) Measurement screen

3P4W 1Loop (Three-phase four-wire single-loop)

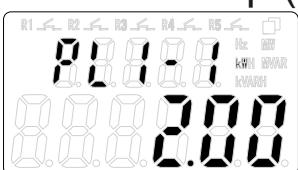




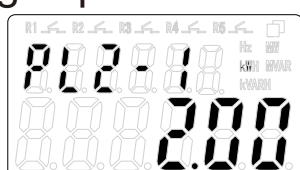
Power (POWER)

Measurement screen

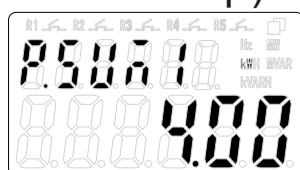
● 1P3W 2Loop (Single-phase three-wire two-loop)



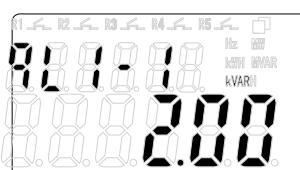
Loop 1 L1 effective power PL1-1



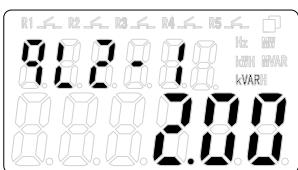
Loop 1 L2 effective power PL2-1



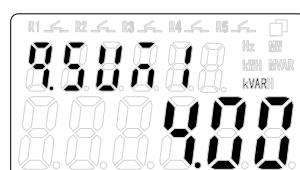
Loop 1 total effective power P.SUM1



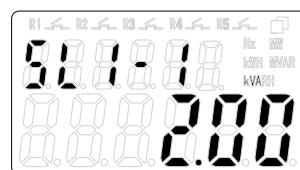
Loop1 L1 reactive power QL1-1



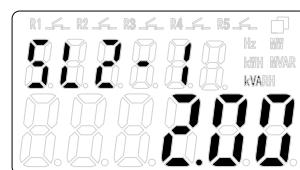
Loop1 L2 reactive power QL2-1



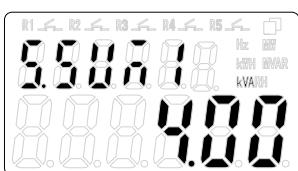
Loop 1 total reactive power Q.SUM1



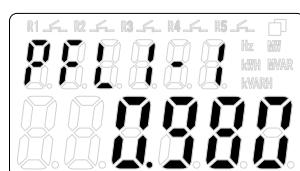
Loop 1 L1 apparent power SL1-1



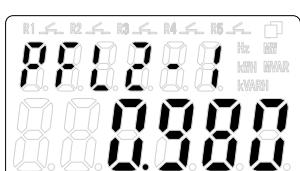
Loop 1 L2 apparent power SL2-1



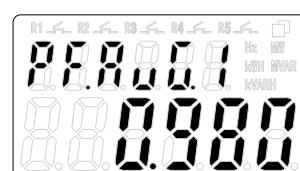
Loop 1 total apparent power S.SUM1



Loop 1 L1 power factor PFL1-1



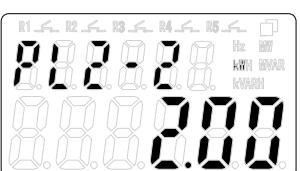
Loop 1 L2 power factor PFL2-1



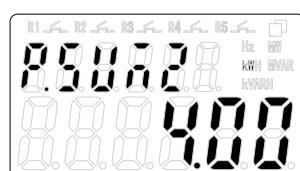
Loop 1 average power factor PF.AVG1



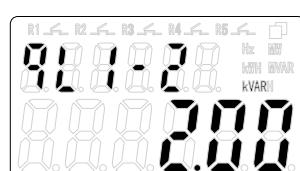
Loop 2 L1 effective power PL1-2



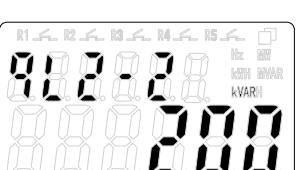
Loop 2 L2 effective power PL2-2



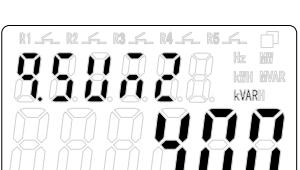
Loop 2 total effective power P.SUM2



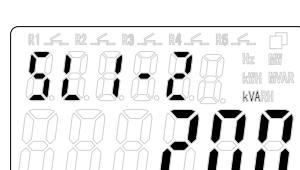
Loop2 L1 reactive power QL1-2



Loop2 L2 reactive power QL2-2



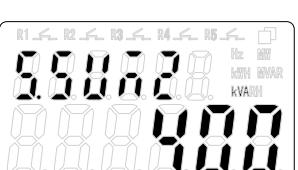
Loop 2 total reactive power Q.SUM2



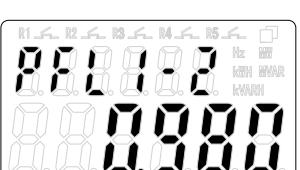
Loop 2 L1 apparent power SL1-2



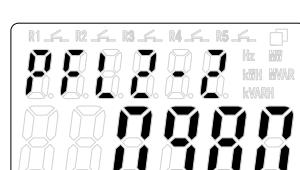
Loop 2 L2 apparent power SL2-2



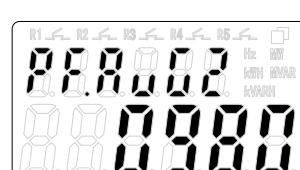
Loop 2 total apparent power S.SUM2



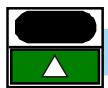
Loop 2 L1 power factor PFL1-2



Loop 2 L2 power factor PFL2-2



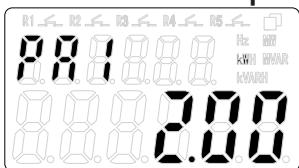
Loop 2 average power factor PF.AVG2



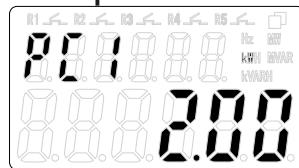
Power (POWER)

Measurement screen

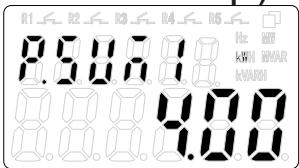
3P3W 2Loop (Three-phase three-wire two-loop)



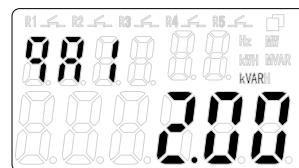
Loop 1 / AB phase
Effective power Pa1



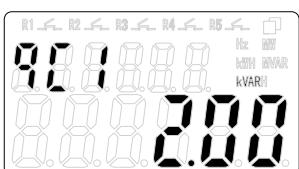
Loop 1 / BC phase
Effective power Pc1



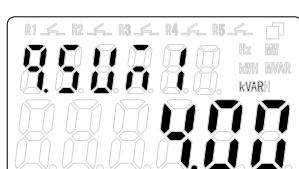
Loop 1 total effective
power P.SUM1



Loop 1 / AB-phase
reactive power Qa1



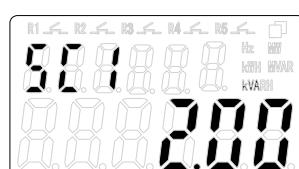
Loop 1 / BC-phase
reactive power Qc1



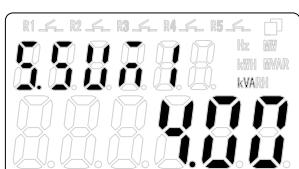
Loop 1 total reactive
power Q.SUM1



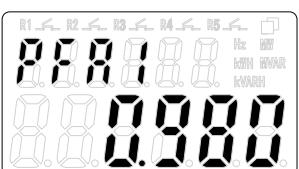
Loop 1 / AB phase
apparent power Sa1



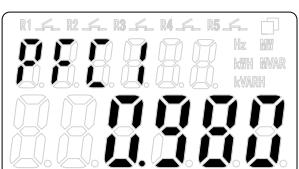
Loop 1 / BC phase
apparent power Sc1



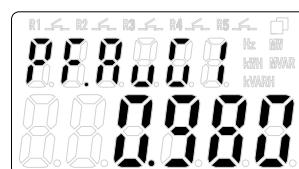
Loop 1 total apparent
power S.SUM1



Loop 1/AB-phase
power factor PFA1



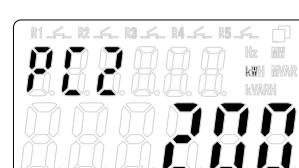
Loop 1/BC-phase
power factor PFC1



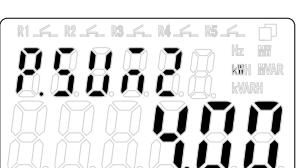
Loop 1 average power
factor PF.AVG1



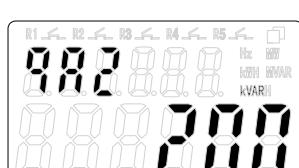
Loop 2 / AB phase
Effective power Pa2



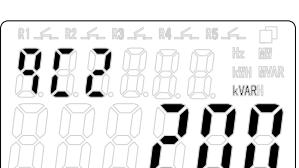
Loop 2 / BC phase
Effective power Pc2



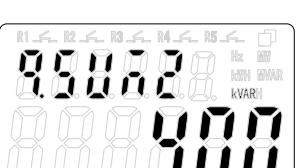
Loop 2 total effective
power P.SUM2



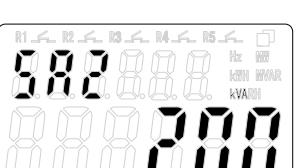
Loop 2 / AB-phase
reactive power Qa2



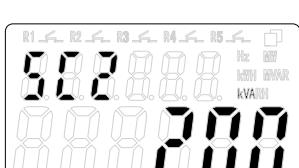
Loop 2 / BC-phase
reactive power Qc2



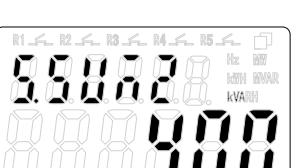
Loop 2 total reactive
power Q.SUM2



Loop 2 / AB phase
apparent power Sa2



Loop 2 / BC phase
apparent power Sc2



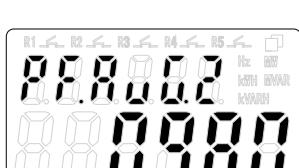
Loop 2 total apparent
power S.SUM2



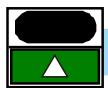
Loop 2/AB-phase
power factor PFA2



Loop 2/BC-phase
power factor PFC2



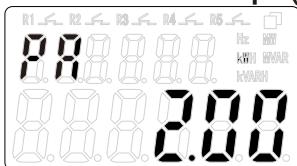
Loop 2 average power
factor PF.AVG2



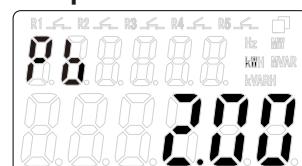
Power (POWER)

Measurement screen

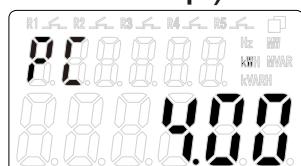
3P4W 1Loop (Three-phase four-wire two-loop)



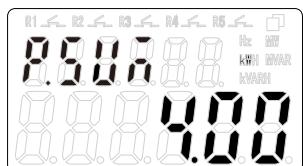
A phase effective power PA



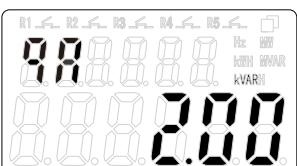
B phase effective power PB



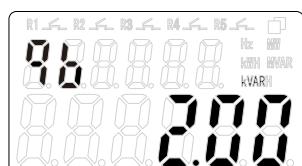
B phase effective power PC



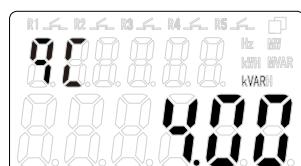
Total effective power P.SUM



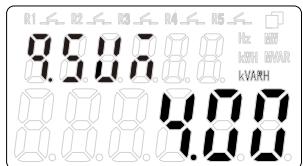
A phase reactive power QA



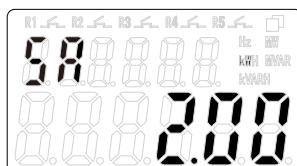
B phase reactive power QB



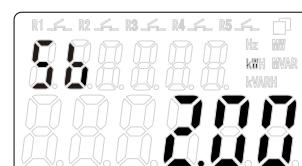
C phase reactive power QC



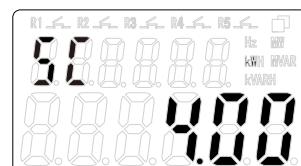
Total reactive power Q.SUM



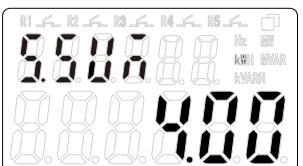
A phase apparent power SA



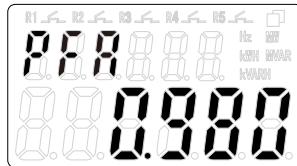
B phase apparent power SB



C phase apparent power SC



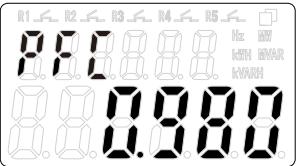
Total apparent power S.SUM



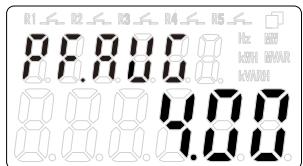
A phase power factor PFA



B phase power factor PFB



C phase power factor PFC

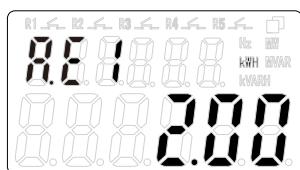


Average power factor PF.AVG

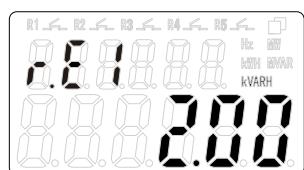


Energy (Energy)

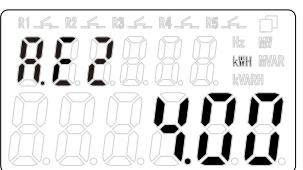
Measurement screen



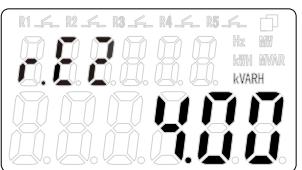
First loop total active energy A.E1



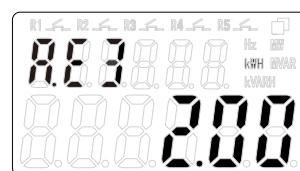
First loop total reactive energy R.E1



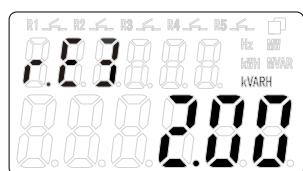
Second loop total active energy A.E2



Second loop total reactive energy R.E2



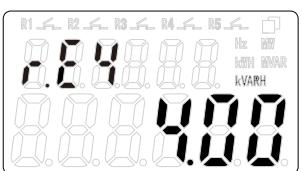
Third loop total active energy A.E3



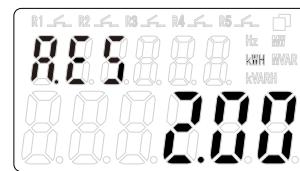
Third loop total reactive energy R.E3



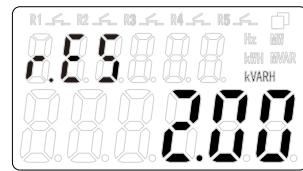
Fourth loop total active energy A.E4



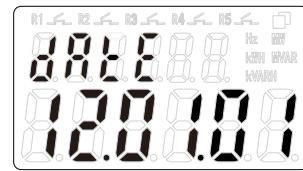
Fourth loop total reactive energy R.E4



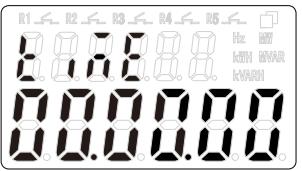
Fifth loop total active energy A.E5



Fifth loop total reactive energy R.E5



Date
12.01.01



Time
00.00.00

The display order of the total active energy and total reactive energy in the loop

1P2W 5Loop:AE1/RE1~~AE5/RE5

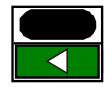
1P3W 1Loop:AE1/RE1

3P3W 1Loop:AE1/RE1

3P4W 1Loop:AE1/RE1

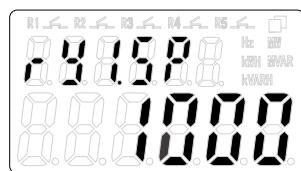
1P3W 2Loop:AE1/RE1~~AE2/RE2

3P3W 2Loop:AE1/RE1~~AE2/RE2



ESC (Leave)

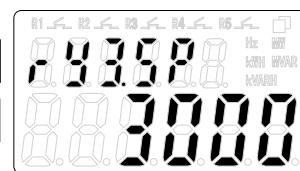
(Press and hold for more than one second to enter the class)



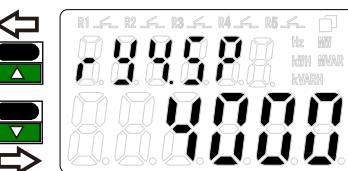
Relay 1 set point
RY1.SP/1000
Range:-32768~32767



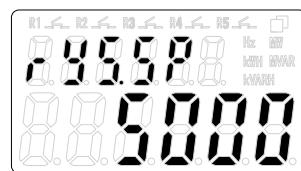
Relay 2 set point
RY2.SP/2000
Range:-32768~32767



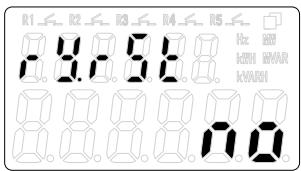
Relay 3 set point
RY3.SP/3000
Range:-32768~32767



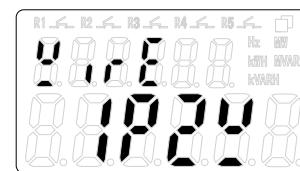
Relay 4 set point
RY4.SP/4000
Range:-32768~32767



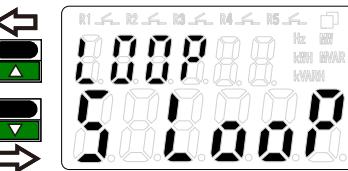
Relay 5 set point
RY5.SP/5000
Range:-32768~32767



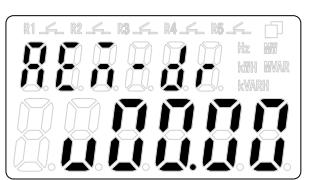
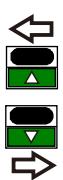
Forced reset has been activated to maintain the relay NO/YES



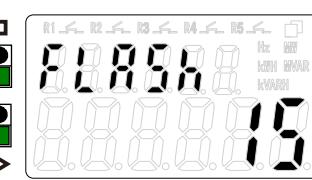
System wiring 1P2W



The number of loops/ 5
By SPEC show:1 / 2 / 5



Software version
AEM-RD/vxx.xx



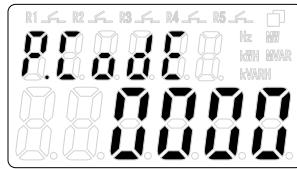
FLASH remaining time : 0~65535
Units of the same recording interval units



Enter (Confirm) / FUN

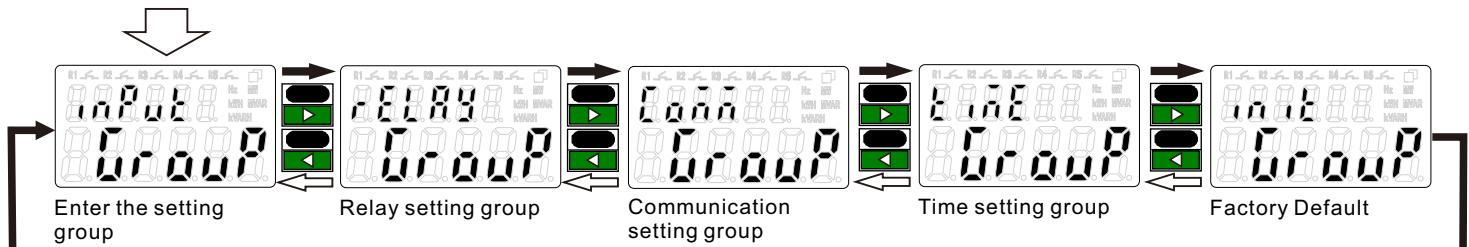
Programming Level

INPUT Group



- ENT** key is pressed, the rightmost 0 starts blinking can move
- Left**, moves to the nearest thousand, **Up** set to 1, the display 1000,,
- ENT** Enter can enter the the parameter setting class

P.CODE/0000



INTO
INPUT
GROUP
(Page 11)

INTO
RELAY
GROUP
(Page 12~13)

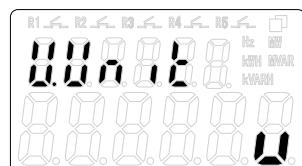
INTO
COMM
GROUP
(Page 14)

INTO
TIME
GROUP
(Page 14)

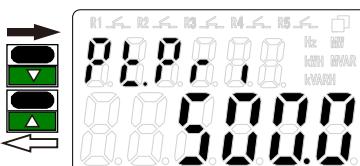
INTO
INIT
(Page 14)

Programming Level

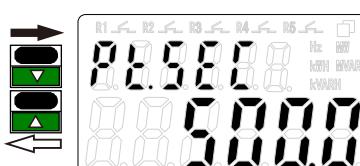
INPUT Group



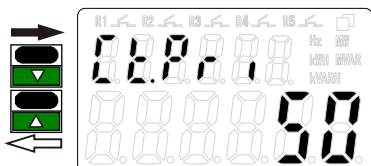
PT primary voltage
unit:U.UNIT/V



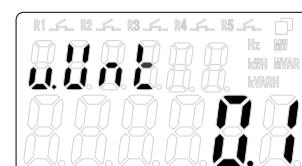
PT primary voltage:
PT.PRI/500.0



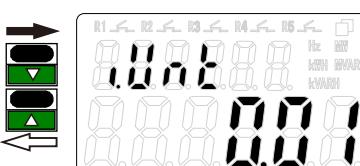
PT secondary voltage:
PT.SEC/500.0



CT primary current:
CT.PRI/50



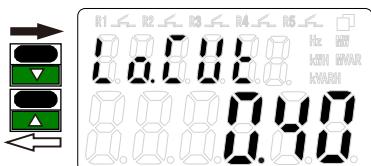
Voltage display
resolution settings:
V.UNIT/0.1



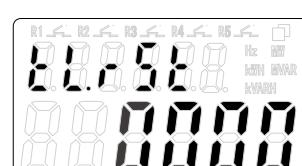
Current display
resolution setting:
I.UNIT / 0.1



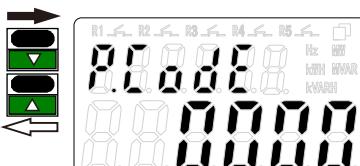
Power display
resolution setting:
W.UNIT/0.1



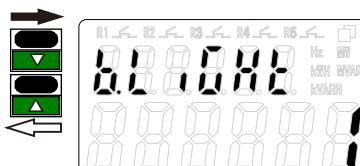
Current display
low cut:Lo.CUT/0



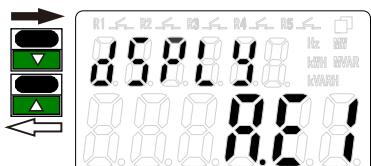
Active / reactive
energy zeroing
tlrst/0000



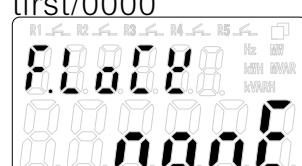
Modify the pass code
P.CODE/0000



Back light time
b.Light/1



Select Permanent
screen
dispaly/ A.E1



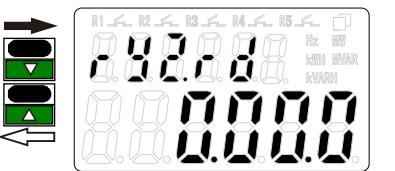
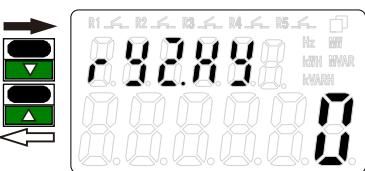
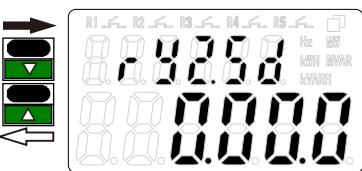
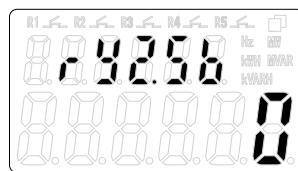
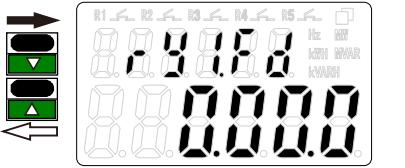
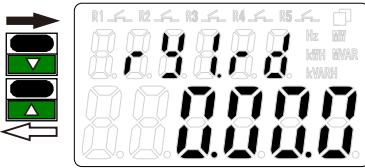
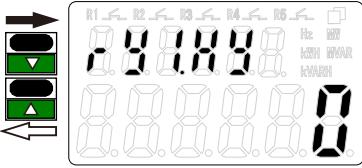
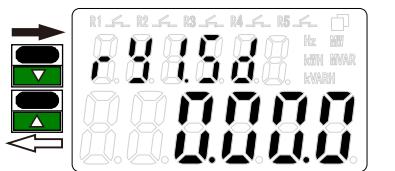
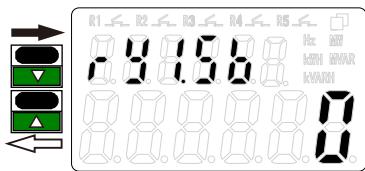
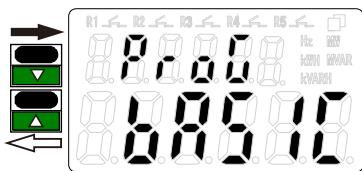
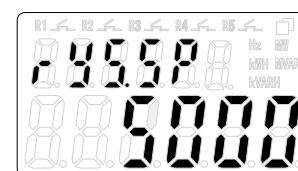
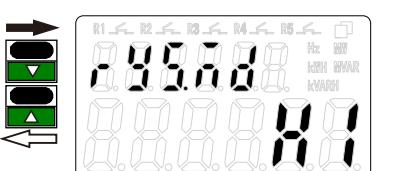
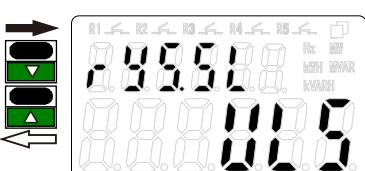
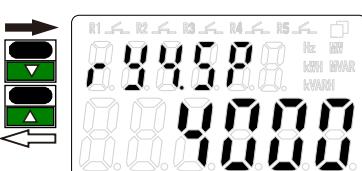
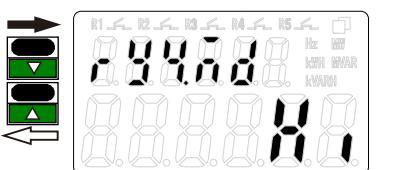
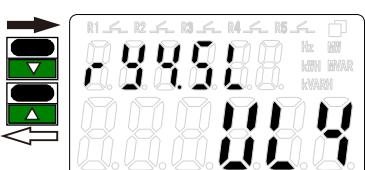
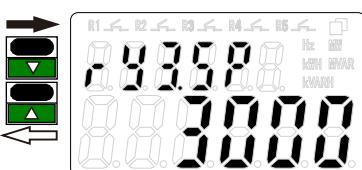
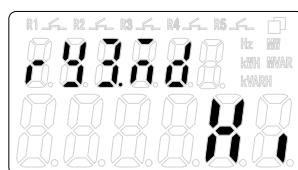
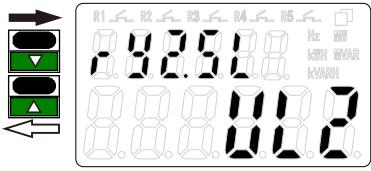
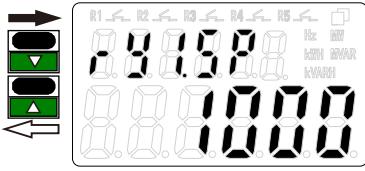
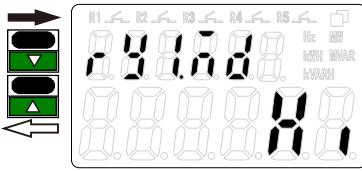
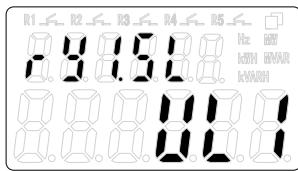
Parameter lock screen
F.LOCK/NONE



Pulse output
YES/NO

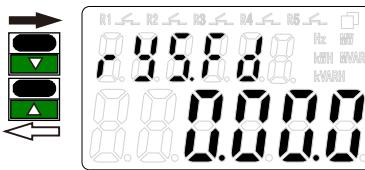
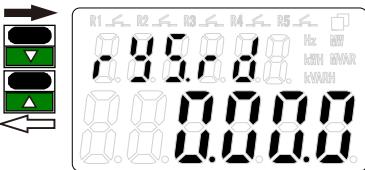
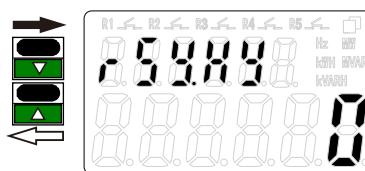
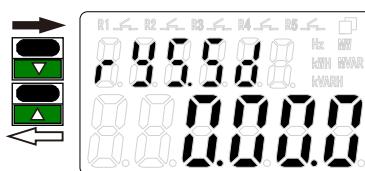
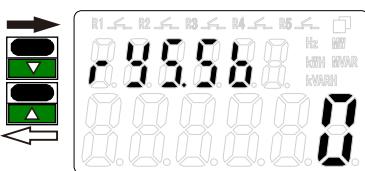
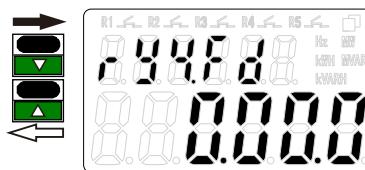
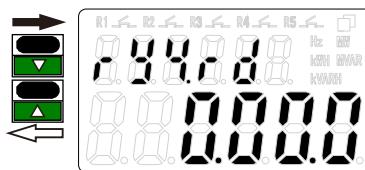
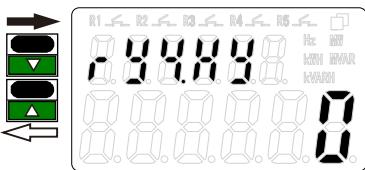
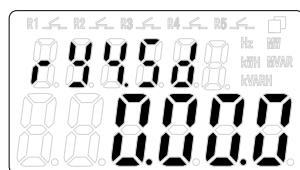
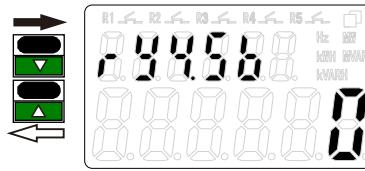
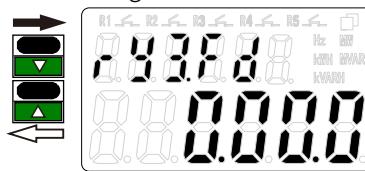
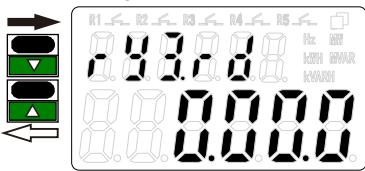
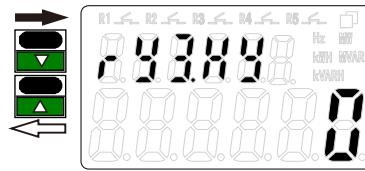
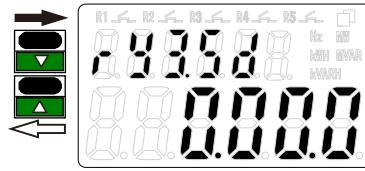
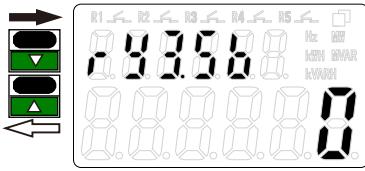
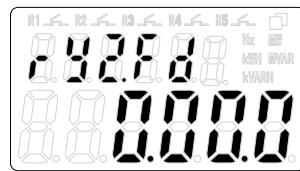
Programming Level

RELAY Group



Programming Level

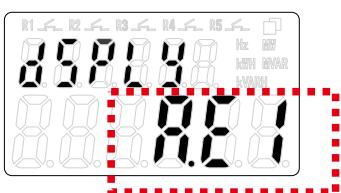
RELAY Group



Programming Level

parameters correspond

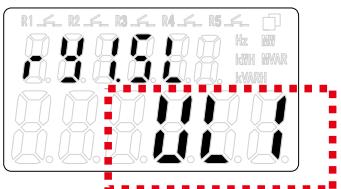
Select Permanent screen



	Loop 1	Loop 2
1P3W	Freq., UL1, UL2, UL12, IL1-1, IL2-1, PL1-1, PL2-1, P.SUM1, QL1-1, QL2-1, Q.SUM1, SL1-1, SL2-1, S.SUM1, PFL1-1, PFL2-1, PF.AVG1, A.E1, R.E1	Freq., UL1, UL2, UL12, IL1-1, IL2-1, IL1-2, IL2-2, PL1-1, PL2-1, P.SUM1, QL1-1, QL2-1, Q.SUM1, SL1-1, SL2-1, S.SUM1, PFL1-1, PFL2-1, PF.AVG1, PL1-2, PL2-2, P.SUM2, QL1-2, QL2-2, Q.SUM2, SL1-2, SL2-2, S.SUM2, PFL1-2, PFL2-2, PF.AVG2, A.E1, R.E1, A.E2, R.E2
3P3W	Freq., UAB, UBC, UCA, ULL.AVG, IA1, IB1, IC1, I.AVG1, PA1, PC1, P.SUM1, QA1, QC1, Q.SUM1, SA1, SC1, S.SUM1, PFA1, PFC1, PF.AVG1, A.E1, R.E1	Freq., UAB, UBC, UCA, ULL.AVG, IA1, IB1, IC1, I.AVG1, IA2, IB2, IC2, I.AVG2, PA1, PC1, P.SUM1, QA1, QC1, Q.SUM1, SA1, SC1, S.SUM1, PFA1, PFC1, PF.AVG1, PA2, PC2, P.SUM2, QA2, QC2, Q.SUM2, SA2, SC2, S.SUM2, PFA2, PFC2, PF.AVG2, A.E1, R.E1, A.E2, R.E2

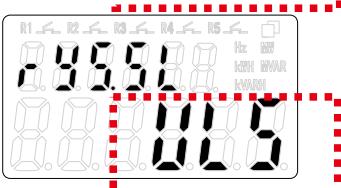
3P4W Loop1	1P2W Loop5
Freq., UA, UB, UC, ULN.AVG, UAB, UBC, UCA, ULL.AVG, IA, IB, IC, IN, I.AVG, PA, PB, PC, P.SUM, QA, QB, QC, Q.SUM, SA, SB, SC, S.SUM, PFA, PFB, PFC, PF.AVG, A.E1, R.E1	Freq., U1, I1, I2, I3, I4, I5, P1, Q1, S1, PF1, P2, Q2, S2, PF2, P3, Q3, S3, PF3, P4, Q4, S4, PF4, P5, Q5, S5, PF5, A.E1, R.E1, A.E2, R.E2, A.E3, R.E3, A.E4, R.E4, A.E5, R.E5

Relay parameters table



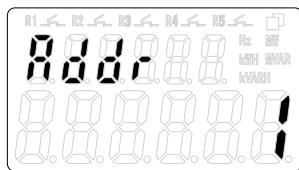
	Loop 1	Loop 2
1P3W	Freq., UL1, UL2, UL12, IL1-1 , IL2-1, PL1-1, PL2-1, P.SUM1, QL1-1, QL2-1, Q.SUM1, SL1-1, SL2-1, S.SUM1, PFL1-1, PFL2-1, PF.AVG1	Freq., UL1, UL2, UL12, IL1-1 , IL2-1, IL1-2, IL2-2, PL1-1, PL2-1, P.SUM1, QL1-1, QL2-1, Q.SUM1, SL1-1, SL2-1, S.SUM1, PFL1-1, PFL2-1, PF.AVG1, PL1-2, PL2-2, P.SUM2, QL1-2, QL2-2, Q.SUM2, SL1-2, SL2-2, S.SUM2, PFL1-2, PFL2-2, PF.AVG2
3P3W	Freq., UAB, UBC, UCA, ULL.AVG, IA1, IB1, IC1, I.AVG1 , PA1, PC1, P.SUM1, QA1, QC1, Q.SUM1, SA1, SC1, S.SUM1, PFA1, PFC1, PF.AVG1	Freq., UAB, UBC, UCA, ULL.AVG, IA1, IB1, IC1, I.AVG1 , IA2, IB2, IC2, I.AVG2, PA1, PC1, P.SUM1, QA1, QC1, Q.SUM1, SA1, SC1, S.SUM1, PFA1, PFC1, PF.AVG1, PA2, PC2, P.SUM2, QA2, QC2, Q.SUM2, SA2, SC2, S.SUM2, PFA2, PFC2, PF.AVG2

3P4W Loop1	1P2W Loop 5
Freq., UA, UB, UC, ULN.AVG, UAB, UBC, UCA, ULL.AVG, IA, IB, IC, IN, I.AVG , PA, PB, PC, P.SUM, QA, QB, QC, Q.SUM, SA, SB, SC, S.SUM, PFA, PFB, PFC, PF.AVG	Freq., U1, I1 , I2, I3, I4, I5, P1, Q1, S1, PF1, P2, Q2, S2, PF2, P3, Q3, S3, PF3, P4, Q4, S4, PF4, P5, Q5, S5, PF5

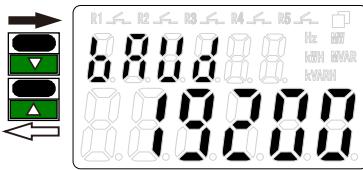


Programming Level

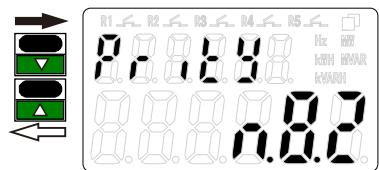
Communication Group



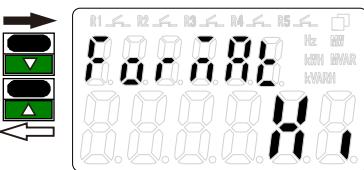
Station number
Addr/001



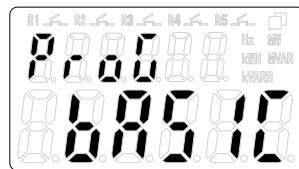
Transmission rate:
Baud/19200



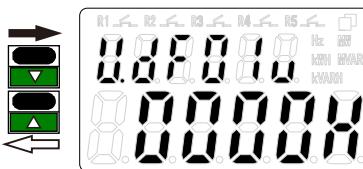
Parity Check:
Prity/N.8.2



Data Format:Forma /Hi
Hi/LO (Data for the Double Word,
you can decide High Word or Low
Word first previous)

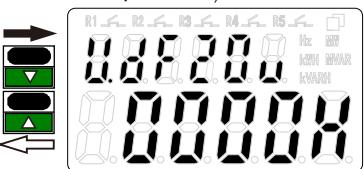


General or advanced
function selection:
Prog/Basic



User-defined address
buffer (Schedule 1)

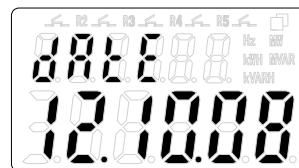
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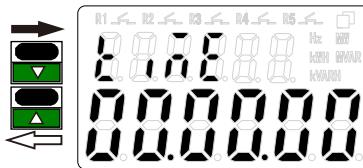
User-defined address
buffer (Schedule 1)

Programming Level

TimeGroup



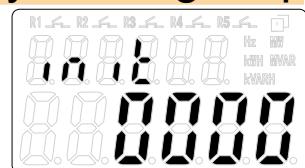
Date: Date/12.10.08
Range:
00.01.01~99.12.31



Time: Time/00.00.00
Range:
00.00.00~23.59.59

Programming Level

Factory reset group



Factory reset:
Initialization : 0000

Name	Address	Range	Explain	Initial	R/W
Freq.	0000h	0.00~99.99Hz	Frequency		R
U1	0001h	0~9999	L-N voltage		R
I1	0002h	0~9999	Group 1 loop current		R
I2	0003h	0~9999	Group 2 loop current		R
I3	0004h	0~9999	Group 3 loop current		R
I4	0005h	0~9999	Group 4 loop current		R
I5	0006h	0~9999	Group 5 loop current		R
P1	0007h	-32768~32767	Group 1 loop active power		R
Q1	0008h	-32768~32767	Group 1 loop reactive power		R
S1	0009h	0~32767	Group 1 loop apparent power		R
PF1	000Ah	-1.000~1.000	Group 1 loop power factor		R
P2	000Bh	-32768~32767	Group 2 loop active power		R
Q2	000Ch	-32768~32767	Group 2 loop reactive power		R
S2	000Dh	0~32767	Group 2 loop apparent power		R
PF2	000Eh	-1.000~1.000	Group 2 loop power factor		R
P3	000Fh	-32768~32767	Group 3 loop active power		R
Q3	0010h	-32768~32767	Group 3 loop reactive power		R
S3	0011h	0~32767	Group 3 loop apparent power		R
PF3	0012h	-1.000~1.000	Group 3 loop power factor		R
P4	0013h	-32768~32767	Group 4 loop active power		R
Q4	0014h	-32768~32767	Group 4 loop reactive power		R
S4	0015h	0~32767	Group 4 loop apparent power		R
PF4	0016h	-1.000~1.000	Group 4 loop power factor		R
P5	0017h	-32768~32767	Group 5 loop active power		R
Q5	0018h	-32768~32767	Group 5 loop reactive power		R
S5	0019h	0~32767	Group 5 loop apparent power		R
PF5	001Ah	-1.000~1.000	Group 5 loop power factor		R
Reserved		001Bh~0026h			
A.E1	0027h	0~99999.9kWH	Loop1 total active energy(High Word)		R
A.E1	0028h		Loop1 total active energy(Low Word)		R
R.E1	0029h	0~99999.9kVARH	Loop1 reactive power(High Word)		R
R.E1	002Ah		Loop1 reactive power(Low Word)		R
A.E2	002Bh	0~99999.9kWH	Loop2 total active energy(High Word)		R
A.E2	002Ch		Loop2 total active energy(Low Word)		R
R.E2	002Dh	0~99999.9kVARH	Loop2 reactive power(High Word)		R
R.E2	002Eh		Loop2 reactive power(Low Word)		R
A.E3	002Fh	0~99999.9kWH	Loop3 total active energy(High Word)		R
A.E3	0030h		Loop3 total active energy(Low Word)		R
R.E3	0031h	0~99999.9kVARH	Loop3 reactive power(High Word)		R
R.E3	0032h		Loop3 reactive power(Low Word)		R
A.E4	0033h	0~99999.9kWH	Loop4 total active energy(High Word)		R
A.E4	0034h		Loop4 total active energy(Low Word)		R
R.E4	0035h	0~99999.9kVARH	Loop4 reactive power(High Word)		R
R.E4	0036h		Loop4 reactive power(Low Word)		R
A.E5	0037h	0~99999.9kWH	Loop5 total active energy(High Word)		R
A.E5	0038h		Loop5 total active energy(Low Word)		R
R.E5	0039h	0~99999.9kVARH	Loop5 reactive power(High Word)		R
R.E5	003Ah		Loop5 reactive power(Low Word)		R

Relay Status and Control(CODE : 01h , 05h):

	0000h		Relay 1 status	bit0~bit4 behalf relay 1~relay 5 state,1=on, 0=off;code 05 is relay control, at register address write Ff00h or 0000h make the relay on or off。 Be noted,relay mode is Ro write FF00h or 0000h,relay mode is Lo.HLD or Hi.HLD write 0000h, rest model is non-writable		R/W
	0001h		Relay 2 status			R/W
	0002h		Relay 3 status			R/W
	0003h		Relay 4 status			R/W
	0004h		Relay 5 status			R/W

General operating Level(CODE : 03h):

WIRE	003Fh	0~5	0:1P2W 1:1P3W 2:3P3W 3:3P4W 4:3P3W-b 5:3P4W-b		R
LOOP	0040h	0~1	Loop 0: 5 Loop		R
FLASH	0041h	0~65535	FLASH remaining time		R

Programming Level(CODE : 03h , 06h , 10h):Input function group

U.UNIT	0043h	0~1	PT primary voltage unit 0:V 1:kV	0	R/W
PT.PRI	0044h	0~10000	PT primary voltage	5000	R/W
PT.SEC	0045h		PT secondary voltage	5000	R/W
CT.PRI	0046h		CT primary current	50	R/W
V.UNT	0047h	0~4	Voltage display unit and resolution setting 0:0.1(V) 1:1(V) 2:0.01k(V) 3:0.1k(V) 4:1k(V)	0	R/W
I.UNT	0048h	0~3	Current display units and resolution setting 0:0.001(A) 1:0.01(A) 2:0.1(A) 3:1(A)	0	R/W
W.UNT	0049h	0~7	Power display unit and resolution settings 0:0.1(W) 1:1(W) 2:0.01k(W) 3:0.1k(W) 4:1k(W) 5:0.01M(W) 6:0.1M(W) 7:1M(W)	0	R/W
Lo.CUT	004Ah	0~10000	Current display low cut	40	R/W
P.CODE	004Bh	0~9999	Modify the P.COD	1000	R/W
b.Light	004Ch	0~15	Backlight time 0(Always lights)~15Min	1	R/W
dSPLY	004Dh	2 Loop 0~15 5 Loop 0~36	Select Permanent screen 2 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:P1 5:Q1 6:S1 7:PF1 8:P2 9:Q2 10:S2 11:PF2 12:A.E1 13:R.E1 14:A.E2 15:R.E2 5 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:I3 5:I4 6:I5 7:P1 8:Q1 9:S1 10:PF1 11:P2 12:Q2 13:S2 14:PF2 15:P3 16:Q3 17:S3 18:PF3 19:P4 20:Q4 21:S4 22:PF4 23:P5 24:Q5 25:S5 26:PF5 27:A.E1 28:R.E1 29:A.E2 30:R.E2 31:A.E3 32:R.E3 33:A.E4 34:R.E4 35:A.E5 36:R.E5	0	R/W
F.LOCK	004Eh	0~3	0:NONE 1:USER 2:ENG. 3:ALL	0	R/W
EEP STATUS	004Fh	0~3	0:OK 1:EEPROM NG 2:FLASH NG 3:EEPROM & FLASH NG	0	R
tL.rst	0050h		Clear Energy (Write 2100)	0	R/W

Relay output function group

			Relay 1 action parameters 2 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:P1 5:Q1 6:S1 7:PF1 8:P2 9:Q2 10:S2 11:PF2 5 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:I3 5:I4 6:I5 7:P1 8:Q1 9:S1 10:PF1 11:P2 12:Q2 13:S2 14:PF2 15:P3 16:Q3 17:S3 18:PF3 19:P4 20:Q4 21:S4 22:PF4 23:P5 24:Q5 25:S5 26:PF5		
RY1.SL	0051h	2 Loop0~11 5 Loop0~26		2	R/W
RY1.MD	0052h	0~5	Relay 1 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY1.SP	0053h	-32768~32767	Relay 1 set point	1000	R/W
RY1.Sb	0054h	0~9999	Relay 1 start band	0	R/W
RY1.Sd	0055h	0000~5999 (0.1second)	Relay1start delay time	0	R/W
RY1.Hy	0056h	0~9999	Relay 1 hysteresis time	0	R/W
RY1.rd	0057h	0000~5999 (0.1second)	Relay 1 start delay time	0	R/W
RY1.Fd	0058h	0000~5999 (0.1second)	Relay 1 de-energizeddelay time	0	R/W
			Relay 2 action parameters 2 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:P1 5:Q1 6:S1 7:PF1 8:P2 9:Q2 10:S2 11:PF2 5 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:I3 5:I4 6:I5 7:P1 8:Q1 9:S1 10:PF1 11:P2 12:Q2 13:S2 14:PF2 15:P3 16:Q3 17:S3 18:PF3 19:P4 20:Q4 21:S4 22:PF4 23:P5 24:Q5 25:S5 26:PF5		
RY2.SL	0059h	2 Loop0~11 5 Loop0~26		2	R/W
RY2.MD	005Ah	0~5	Relay 2 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY2.SP	005Bh	-32768~32767	Relay 2 set point	2000	R/W
RY2.Sb	005Ch	0~9999	Relay 2 start band	0	R/W
RY2.Sd	005Dh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Hy	005Eh	0~9999	Relay 2 hysteresis time	0	R/W
RY2.rd	005Fh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W

RY2.Fd	0060h	0000~5999 (0.1second)	Relay 2 de-energizeddelay time	0	R/W
RY3.SL	0061h	2 Loop0~11 5 Loop0~26	Relay 3 action parameters 2Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:P1 5:Q1 6:S1 7:PF1 8:P2 9:Q2 10:S2 11:PF2 5Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:I3 5:I4 6:I5 7:P1 8:Q1 9:S1 10:PF1 11:P2 12:Q2 13:S2 14:PF2 15:P3 16:Q3 17:S3 18:PF3 19:P4 20:Q4 21:S4 22:PF4 23:P5 24:Q5 25:S5 26:PF5	2	R/W
RY3.MD	0062h	0~5	Relay 3 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY3.SP	0063h	-32768~32767	Relay 3 set point	3000	R/W
RY3.Sb	0064h	0~9999	Relay 3 start band	0	R/W
RY3.Sd	0065h	0000~5999 (0.1second)	Relay 3 start delay time	0	R/W
RY3.Hy	0066h	0~9999	Relay 3 hysteresis time	0	R/W
RY3.rd	0067h	0000~5999 (0.1second)	Relay 3 start delay time	0	R/W
RY3.Fd	0068h	0000~5999 (0.1second)	Relay 3 de-energizeddelay time	0	R/W
RY4.SL	0069h	2 Loop0~11 5 Loop0~26	Relay 4 action parameters 2Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:P1 5:Q1 6:S1 7:PF1 8:P2 9:Q2 10:S2 11:PF2 5Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:I3 5:I4 6:I5 7:P1 8:Q1 9:S1 10:PF1 11:P2 12:Q2 13:S2 14:PF2 15:P3 16:Q3 17:S3 18:PF3 19:P4 20:Q4 21:S4 22:PF4 23:P5 24:Q5 25:S5 26:PF5	2	R/W
RY4.MD	006Ah	0~5	Relay 4 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY4.SP	006Bh	-32768~32767	Relay 4 set point	4000	R/W
RY4.Sb	006Ch	0~9999	Relay 4 start band	0	R/W
RY4.Sd	006Dh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Hy	006Eh	0~9999	Relay 4 hysteresis time	0	R/W
RY4.rd	006Fh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W

RY4.Fd	0070h	0000~5999 (0.1second)	Relay 1 de-energizeddelay time	0	R/W
RY5.SL	0071h	2 Loop0~11 5 Loop0~26	Relay 5 action parameters 2 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:P1 5:Q1 6:S1 7:PF1 8:P2 9:Q2 10:S2 11:PF2 5 Loop==> 0:Freq. 1:U1 2:I1 3:I2 4:I3 5:I4 6:I5 7:P1 8:Q1 9:S1 10:PF1 11:P2 12:Q2 13:S2 14:PF2 15:P3 16:Q3 17:S3 18:PF3 19:P4 20:Q4 21:S4 22:PF4 23:P5 24:Q5 25:S5 26:PF5	2	R/W
RY5.MD	0072h	0~5	Relay 5 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY5.SP	0073h	-32768~32767	Relay 5 set point	5000	R/W
RY5.Sb	0074h	0~9999	Relay 5 start band	0	R/W
RY5.Sd	0075h	0000~5999 (0.1second)	Relay 5 start delay time	0	R/W
RY5.Hy	0076h	0~9999	Relay 5 hysteresis time	0	R/W
RY5.rd	0077h	0000~5999 (0.1second)	Relay 5 start delay time	0	R/W
RY5.Fd	0078h	0000~5999 (0.1second)	Relay 5 de-energizeddelay time	0	R/W

Communication function group

Addr	007Bh	1~255	Station number	1	R/W
Baud	007Ch	0~5	Transmission rate 0:1200 1:2400 2:4800 3:9600 4:19200 5:38400	4	R/W
Prity	007Dh	0~3	Parity Check 0:N.8.1 1:N.8.2 2:E.8.1 3:O.8.1	1	R/W
Format	007Eh	0~1	0:High 1:Lo	0	R/W

Date Time function group

Year	007Fh	2000~2099	Year	2012	R/W
Month	0080h	1~12	Month	1	R/W
Day	0081h	1~31	Date	1	R/W
Hour	0082h	0~23	Time	0	R/W
Minute	0083h	0~59	Minute	0	R/W
Second	0084h	0~59	Second	0	R/W

FLASH read(CODE : 03h , 06h)

	0200h		The number of each record WORD		R
	0201h		Unread items		R
	0202h		Read the next record, if no data returned error code 0020h		R
	0203h	0~2	Read status reports 0:Clear all records 1:Give up this read 2:Read successfully		W
	0204H	0~1	Stop recording 0:Stop 1:Restart	1	R/W

FLASH setting(CODE : 03h , 06h , 10h)

	0210h	0~1	0:Full Record 1:Individual choice	0	R/W
	0211h	1~32767	The value of the recording interval time	15	R/W
	0212h	0~3	Recording interval time units 0:sec 1:min 2:hour 3:day	1	R/W
	0213h	2000~2099	Start recording time -Year	2012	R/W
	0214h	1~12	Start recording time -Month	1	R/W
	0215h	1~31	Start recording time -Day	1	R/W
	0216h	0~23	Start recording time -Hour	0	R/W
	0217h	0~59	Start recording time -Minute	0	R/W
	0218h	0~59	Start recording time -Second	0	R/W
	0219h	2000~2099	Stop recording time-Year	2012	R/W
	021Ah	1~12	Stop recording time-Month	1	R/W
	021Bh	1~31	Stop recording time-Day	1	R/W
	021Ch	0~23	Stop recording time-Hour	0	R/W
	021Dh	0~59	Stop recording time-Minute	0	R/W
	021Eh	0~59	Stop recording time-Second	0	R/W
	021Fh	0~1	Stop / Start recording 0:Stop 1:Start	0	R/W

Record field01	0220h		Record field, store the recorded content index 2 Loop==> 0:none 1:Freq. 2:U1 3:I1 4:I2 5:P1 6:Q1 7:S1 8:PF1 9:P2 10:Q2 11:S2 12:PF2 13:A.E1 14:R.E1 15:A.E2 16:R.E2 5 Loop==> 0:none 1:Freq. 2:U1 3:I1 4:I2 5:I3 6:I4 7:I5 8:P1 9:Q1 10:S1 11:PF1 12:P2 13:Q2 14:S2 15:PF2 16:P3 17:Q3 18:S3 19:PF3 20:P4 21:Q4 22:S4 23:PF4 24:P5 25:Q5 26:S5 27:PF5 28:A.E1 29:R.E1 30:A.E2 31:R.E2 32:A.E3 33:R.E3 34:A.E4 35:R.E4 36:A.E5 37:R.E5	R/W
Record field02	0221h			R/W
Record field03	0222h			R/W
Record field04	0223h			R/W
Record field05	0224h			R/W
Record field06	0225h			R/W
Record field07	0226h			R/W
Record field08	0227h			R/W
Record field09	0228h			R/W
Record field10	0229h			R/W
Record field11	022Ah			R/W
Record field12	022Bh			R/W
Record field13	022Ch			R/W
Record field14	022Dh			R/W
Record field15	022Eh			R/W
Record field16	022Fh			R/W
Record field17	0230h			R/W
Record field18	0231h			R/W
Record field19	0232h		initial(Full Record)	R/W
Record field20	0233h	2 loop 0~16 5 loop 0~37	2 loop==>Record field 01~Record field 16 Sequence 1~16,Record	R/W
Record field21	0234h		field17~Record field 41 are all 0	R/W
Record field22	0235h		5 loop==>Record field 01~Record field37 Sequence1~37, Record38~Record field41 are all 0	R/W
Record field23	0236h		initial	R/W
Record field24	0237h		Record field 01~Record field 41 are all 0	R/W
Record field25	0238h			R/W
Record field26	0239h			R/W
Record field27	023Ah			R/W
Record field28	023Bh			R/W
Record field29	023Ch			R/W
Record field30	023Dh			R/W
Record field31	023Eh			R/W
Record field32	023Fh			R/W
Record field33	0240h			R/W
Record field34	0241h			R/W
Record field35	0242h			R/W
Record field36	0243h			R/W
Record field37	0244h			R/W
Record field38	0245h			R/W
Record field39	0246h			R/W
Record field40	0247h			R/W
Record field41	0248h			R/W

Name	Address	Range	Explain	Initial	R/W
Freq.	0000h	45.00~65.00Hz	Frequency		R
UL1	0001h	0~9999	L1-N Voltage		R
UL2	0002h	0~9999	L2-N Voltage		R
UL12	0003h	0~9999	L1-L2 Voltage		R
IL1-1	0004h	0~9999	Loop 1 L1 current		R
IL2-1	0005h	0~9999	Loop 1 L2 current		R
IL1-2	0006h	0~9999	Loop 2 L1 current		R
IL2-2	0007h	0~9999	Loop 2 L2 current		R
PL1-1	0008h	-32768~32767	Loop 1 L1-N phase active power		R
PL2-1	0009h	-32768~32767	Loop 1 L2-N phase active power		R
P.SUM1	000Ah	-32768~32767	Loop 1 total active power		R
QL1-1	000Bh	-32768~32767	Loop 1 L1-N phase reactive power		R
QL2-1	000Ch	-32768~32767	Loop 1 L2-N phase reactive power		R
Q.SUM1	000Dh	-32768~32767	Loop 1 total reactive power		R
SL1-1	000Eh	0~32767	Loop 1 L1-N apparent power		R
SL2-1	000Fh	0~32767	Loop 1 L2-N apparent power		R
S.SUM1	0010h	0~32767	Loop 1 total apparent power		R
PFL1-1	0011h	-1.000~1.000	Loop 1 L1-N Power Factor		R
PFL2-1	0012h	-1.000~1.000	Loop 1 L2-N Power Factor		R
PF.AVG1	0013h	-1.000~1.000	Loop 1 average power factor		R
PL1-2	0014h	-32768~32767	Loop 2 L1-N phase active power		R
PL2-2	0015h	-32768~32767	Loop 2 L2-N phase active power		R
P.SUM2	0016h	-32768~32767	Loop 2 total active power		R
QL1-2	0017h	-32768~32767	Loop 2 L1-N apparent power		R
QL2-2	0018h	-32768~32767	Loop 2 L2-N apparent power		R
Q.SUM2	0019h	-32768~32767	Loop 2 total reactive power		R
SL1-2	001Ah	0~32767	Loop 2 L1-N apparent power		R
SL2-2	001Bh	0~32767	Loop 2 L2-N apparent power		R
S.SUM2	001Ch	0~32767	Loop 2 total apparent power		R
PFL1-2	001Dh	-1.000~1.000	Loop 2 L1-N Power Factor		R
PFL2-2	001Eh	-1.000~1.000	Loop 2 L2-N Power Factor		R
PF.AVG2	001Fh	-1.000~1.000	Loop 2 average power factor		R
A.E1	0027h	0~99999.9kWH	Loop 1 total active energy(High Word)		R
A.E1	0028h		Loop 1 total active energy(Low Word)		R
R.E1	0029h	0~99999.9kVARH	Loop 1 total reactive energy(High Word)		R
R.E1	002Ah		Loop 1 total reactive energy(Low Word)		R
A.E2	002Bh	0~99999.9kWH	Loop 2 total active energy(High Word)		R
A.E2	002Ch		Loop 2 total active energy(Low Word)		R
R.E2	002Dh	0~99999.9kVARH	Loop 2 total reactive energy(High Word)		R
R.E2	002Eh		Loop 2 total reactive energy(Low Word)		R

Relay Status and Control(CODE : 01h , 05h):

	0000h		Relay 1 status	bit0~bit4 behalf relay 1~relay 5 state, 1=on, 0=off; code 05 is relay control, at register address write Ff00h or 0000h make the relay on or off. Be noted, relay mode is Ro write FF00h or 0000h, relay mode is Lo.HLd or Hi.HLd write 0000h, rest model is non-writable		R/W
	0001h		Relay 2 status			R/W
	0002h		Relay 3 status			R/W
	0003h		Relay 4 status			R/W
	0004h		Relay 5 status			R/W

General operating Level(CODE: 03h):

WIRE	003Fh	0~5	0:1P2W 1:1P3W 2:3P3W 3:3P4W 4:3P3W-b 5:3P4W-b		R
LOOP	0040h	0~1	number of loop 0: 1 LOOP 1: 2 LOOP		R
FLASH	0041h	0~65535	FLASH remaining time		R

Programming Level(CODE : 03h , 06h , 10h)\n input function group

U.UNIT	0043h	0~1	PT primary voltage unit 0:V 1:kV	0	R/W
PT.PRI	0044h		PT primary voltage	5000	R/W
PT.SEC	0045h		PT secondary voltage	5000	R/W
CT.PRI	0046h		CT primary current	50	R/W
V.UNT	0047h	0~4	Voltage display unit and resolution setting 0:0.1(V) 1:1(V) 2:0.01k(V) 3:0.1k(V) 4:1k(V)	0	R/W
I.UNT	0048h	0~3	Current display units and resolution setting 0:0.001(A) 1:0.01(A) 2:0.1(A) 3:1(A)	0	R/W
W.UNT	0049h	0~7	Power display unit and resolution settings 0:0.1(W) 1:1(W) 2:0.01k(W) 3:0.1k(W) 4:1k(W) 5:0.01M(W) 6:0.1M(W) 7:1M(W)	0	R/W
Lo.CUT	004Ah	0~10000	Current display low cut	40	R/W
P.CODE	004Bh	0~9999	Modify the P.COD	1000	R/W
b.Light	004Ch	0~15	Backlight time 0(Always lights)~15Min	1	R/W
dSPLY	004Dh	1 Loop 0~19 2 Loop 0~35	Select Permanent screen 1 Loop==> 0: Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:PL1-1 7:PL2-1 8:P.SUM1 9:QL1-1 10:QL2-1 11:Q.SUM1 12:SL1-1 13:SL2-1 14:S.SUM1 15:PFL1-1 16:PFL2-1 17:PF.AVG1 18:A.E1 19:R.E1 2 Loop==> 0:Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:IL1-2 7:IL2-2 8:PL1-1 9:PL2-1 10:P.SUM1 11:QL1-1 12:QL2-1 13:Q.SUM1 14:SL1-1 15:SL2-1 16:S.SUM1 17:PFL1-1 18:PFL2-1 19:PF.AVG1 20:PL1-2 21:PL2-2 22:P.SUM2 23:QL1-2 24:QL2-2 25:Q.SUM2 26:SL1-2 27:SL2-2 28:S.SUM2 29:PFL1-2 30:PFL2-2 31:PF.AVG2 32:A.E1 33:R.E1 34:A.E2 35:R.E2	0	R/W
F.LOCK	004Eh	0~3	0:NONE 1:USER 2:ENG. 3:ALL	0	R/W
EEP STATUS	004Fh	0~3	0:OK 1: EEPROM NG 2: FLASH NG 3: EEPROM & FLASH NG	0	R
tL.rst	0050h		Clear Energy (Write 2100)	0	R/W

Relay output function group

			Relay 1 action parameters 1 Loop==> 0: Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:PL1-1 7:PL2-1 8:P.SUM1 9:QL1-1 10:QL2-1 11:Q.SUM1 12:SL1-1 13:SL2-1 14:S.SUM1 15:PFL1-1 16:PFL2-1 17:PF.AVG1 2 Loop==> 0:Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:IL1-2 7:IL2-2 8:PL1-1 9:PL2-1 10:P.SUM1 11:QL1-1 12:QL2-1 13:Q.SUM1 14:SL1-1 15:SL2-1 16:S.SUM1 17:PFL1-1 18:PFL2-1 19:PF.AVG1 20:PL1-2 21:PL2-2 22:P.SUM2 23:QL1-2 24:QL2-2 25:Q.SUM2 26:SL1-2 27:SL2-2 28:S.SUM2 29:PFL1-2 30:PFL2-2 31:PF.AVG2		
RY1.SL	0051h	1Loop 0~17 2Loop 0~31		4	R/W
RY1.MD	0052h	0~5	Relay 1 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY1.SP	0053h	-32768~32767	Relay 1 set point	1000	R/W
RY1.Sb	0054h	0~9999	Relay 1 start band	0	R/W
RY1.Sd	0055h	0000~5999 (0.1second)	Relay1start delay time	0	R/W
RY1.Hy	0056h	0~9999	Relay 1 hysteresis time	0	R/W
RY1.rd	0057h	0000~5999 (0.1second)	Relay 1 start delay time	0	R/W
RY1.Fd	0058h	0000~5999 (0.1second)	Relay 1 de-energizeddelay time	0	R/W
RY2.SL	0059h	1Loop 0~17 2 Loop 0~31	Relay 2 action parameters 1 Loop==> 0: Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:PL1-1 7:PL2-1 8:P.SUM1 9:QL1-1 10:QL2-1 11:Q.SUM1 12:SL1-1 13:SL2-1 14:S.SUM1 15:PFL1-1 16:PFL2-1 17:PF.AVG1 2 Loop==> 0:Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:IL1-2 7:IL2-2 8:PL1-1 9:PL2-1 10:P.SUM1 11:QL1-1 12:QL2-1 13:Q.SUM1 14:SL1-1 15:SL2-1 16:S.SUM1 17:PFL1-1 18:PFL2-1 19:PF.AVG1 20:PL1-2 21:PL2-2 22:P.SUM2 23:QL1-2 24:QL2-2 25:Q.SUM2 26:SL1-2 27:SL2-2 28:S.SUM2 29:PFL1-2 30:PFL2-2 31:PF.AVG2	4	R/W

RY2.MD	005Ah	0~5	Relay 2 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY2.SP	005Bh	-32768~32767	Relay 2 set point	2000	R/W
RY2.Sb	005Ch	0~9999	Relay 2 start band	0	R/W
RY2.Sd	005Dh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Hy	005Eh	0~9999	Relay 2 hysteresis time	0	R/W
RY2.rd	005Fh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Fd	0060h	0000~5999 (0.1second)	Relay 2 de-energizeddelay time	0	R/W
RY3.SL	0061h	1Loop 0~17 2Loop 0~31	Relay 3 action parameters 1 Loop==> 0: Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:PL1-1 7:PL2-1 8:P.SUM1 9:QL1-1 10:QL2-1 11:Q.SUM1 12:SL1-1 13:SL2-1 14:S.SUM1 15:PFL1-1 16:PFL2-1 17:PF.AVG1 2 Loop==> 0:Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:IL1-2 7:IL2-2 8:PL1-1 9:PL2-1 10:P.SUM1 11:QL1-1 12:QL2-1 13:Q.SUM1 14:SL1-1 15:SL2-1 16:S.SUM1 17:PFL1-1 18:PFL2-1 19:PF.AVG1 20:PL1-2 21:PL2-2 22:P.SUM2 23:QL1-2 24:QL2-2 25:Q.SUM2 26:SL1-2 27:SL2-2 28:S.SUM2 29:PFL1-2 30:PFL2-2 31:PF.AVG2	4	R/W
RY3.MD	0062h	0~5	Relay 3 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY3.SP	0063h	-32768~32767	Relay 3 action mode	3000	R/W
RY3.Sb	0064h	0~9999	Relay 3 start band	0	R/W
RY3.Sd	0065h	0000~5999 (0.1second)	Relay 3 start delay time	0	R/W
RY3.Hy	0066h	0~9999	Relay 3 hysteresis time	0	R/W
RY3.rd	0067h	0000~5999 (0.1second)	Relay 3 start delay time	0	R/W
RY3.Fd	0068h	0000~5999 (0.1second)	Relay 3 de-energizeddelay time	0	R/W

			Relay 4 action parameters 1 Loop==> 0: Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:PL1-1 7:PL2-1 8:P.SUM1 9:QL1-1 10:QL2-1 11:Q.SUM1 12:SL1-1 13:SL2-1 14:S.SUM1 15:PFL1-1 16:PFL2-1 17:PF.AVG1 2 Loop==> 0:Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:IL1-2 7:IL2-2 8:PL1-1 9:PL2-1 10:P.SUM1 11:QL1-1 12:QL2-1 13:Q.SUM1 14:SL1-1 15:SL2-1 16:S.SUM1 17:PFL1-1 18:PFL2-1 19:PF.AVG1 20:PL1-2 21:PL2-2 22:P.SUM2 23:QL1-2 24:QL2-2 25:Q.SUM2 26:SL1-2 27:SL2-2 28:S.SUM2 29:PFL1-2 30:PFL2-2 31:PF.AVG2		
RY4.SL	0069h	1 Loop0~17 2 Loop0~31		4	R/W
RY4.MD	006Ah	0~5	Relay 4 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLD 4:Hi.HLD 5:RO	2	R/W
RY4.SP	006Bh	-32768~32767	Relay 4 set point	4000	R/W
RY4.Sb	006Ch	0~9999	Relay 4 start band	0	R/W
RY4.Sd	006Dh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Hy	006Eh	0~9999	Relay 4 hysteresis time	0	R/W
RY4.rd	006Fh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Fd	0070h	0000~5999 (0.1second)	Relay 4 de-energizeddelay time	0	R/W

			Relay 5 action parameters 1 Loop==> 0: Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:PL1-1 7:PL2-1 8:P.SUM1 9:QL1-1 10:QL2-1 11:Q.SUM1 12:SL1-1 13:SL2-1 14:S.SUM1 15:PFL1-1 16:PFL2-1 17:PF.AVG1 2 Loop==> 0:Freq. 1:UL1 2:UL2 3:UL12 4:IL1-1 5:IL2-1 6:IL1-2 7:IL2-2 8:PL1-1 9:PL2-1 10:P.SUM1 11:QL1-1 12:QL2-1 13:Q.SUM1 14:SL1-1 15:SL2-1 16:S.SUM1 17:PFL1-1 18:PFL2-1 19:PF.AVG1 20:PL1-2 21:PL2-2 22:P.SUM2 23:QL1-2 24:QL2-2 25:Q.SUM2 26:SL1-2 27:SL2-2 28:S.SUM2 29:PFL1-2 30:PFL2-2 31:PF.AVG2		
RY5.SL	0071h	1 Loop0~17 2 Loop0~31		4	R/W
RY5.MD	0072h	0~5	Relay 5 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLD 4:Hi.HLD 5:RO	2	R/W
RY5.SP	0073h	-32768~32767	Relay 5 set point	5000	R/W
RY5.Sb	0074h	0~9999	Relay 5 start band	0	R/W
RY5.Sd	0075h	0000~5999 (0.1second)	Relay 5 start delay time	0	R/W
RY5.Hy	0076h	0~9999	Relay 5 hysteresis time	0	R/W
RY5.rd	0077h	0000~5999 (0.1second)	Relay 5 start delay time	0	R/W
RY5.Fd	0078h	0000~5999 (0.1second)	Relay 5 de-energizeddelay time	0	R/W

Communication function group

Addr	007Bh	1~255	Station number	1	R/W	
Baud	007Ch	0~5	Transmission rate 0:1200 1:2400 2:4800 3:9600 4:19200 5:38400	4	R/W	
Prity	007Dh	0~3	Parity Check 0:N.8.1 1:N.8.2 2:E.8.1 3:O.8.1	1	R/W	
Format	007Eh	0~1	0:High 1:Lo	0	R/W	

Date Time function group

Year	007Fh	2000~2099	Year	2012	R/W	
Month	0080h	1~12	Month	1	R/W	
Day	0081h	1~31	Date	1	R/W	
Hour	0082h	0~23	Time	0	R/W	
Minute	0083h	0~59	Minute	0	R/W	
Second	0084h	0~59	Second	0	R/W	

FLASHread(CODE : 03h , 06h)

	0200h		The number of each record WORD		
	0201h		Unread items		R
	0202h		Read the next record, if no data returned error code 0020h		R
	0203h	0~2	Read status reports 0:Clear all records 1:Give up this read 2:Read successfully		W
	0204H	0~1	Stop recording 0:Stop 1:Restart	1	R/W

FLASH setting(CODE : 03h , 06h , 10h)

	0210h	0~1	0:Full Record 1:Individual choice	0	R/W
	0211h	1~32767	The value of the recording interval time	15	R/W
	0212h	0~3	Recording interval time units 0:sec 1:min 2:hour 3:day	1	R/W
	0213h	2000~2099	Start recording time -Year	2012	R/W
	0214h	1~12	Start recording time -Month	1	R/W
	0215h	1~31	Start recording time -Day	1	R/W
	0216h	0~23	Start recording time -Hour	0	R/W
	0217h	0~59	Start recording time -Minute	0	R/W
	0218h	0~59	Start recording time -Second	0	R/W
	0219h	2000~2099	Stop recording time-Year	2012	R/W
	021Ah	1~12	Stop recording time-Month	1	R/W
	021Bh	1~31	Stop recording time-Day	1	R/W
	021Ch	0~23	Stop recording time-Hour	0	R/W
	021Dh	0~59	Stop recording time-Minute	0	R/W
	021Eh	0~59	Stop recording time-Second	0	R/W
	021Fh	0~1	Stop / Start recording 0:Stop 1:Start	0	R/W

Record field01	0220h		Record field, store the recorded content index 1 Loop==> 0:none 1:Freq. 2:UL1 3:UL2 4:UL12 5:IL1-1 6:IL2-1 7:PL1-1 8:PL2-1 9:P.SUM1 10:QL1-1 11:QL2-1 12:Q.SUM1 13:SL1-1 14:SL2-1 15:S.SUM1 16:PFL1-1 17:PFL2-1 18:PF.AVG1 19:A.E1 20:R.E1	R/W
Record field02	0221h			R/W
Record field03	0222h			R/W
Record field04	0223h			R/W
Record field05	0224h			R/W
Record field06	0225h			R/W
Record field07	0226h			R/W
Record field08	0227h			R/W
Record field09	0228h			R/W
Record field10	0229h			R/W
Record field11	022Ah			R/W
Record field12	022Bh			R/W
Record field13	022Ch			R/W
Record field14	022Dh			R/W
Record field15	022Eh			R/W
Record field16	022Fh			R/W
Record field17	0230h			R/W
Record field18	0231h			R/W
Record field19	0232h			R/W
Record field20	0233h	1loop 0~20	initial(Full Record)	R/W
Record field21	0234h	2loop 0~36	1 loop==> Record field01~Record field20 Sequence1~20, Record field21~Record field41are all 0	R/W
Record field22	0235h			R/W
Record field23	0236h		2 loop==> Record field01~Record field36Sequence1~36, Record field37~Record field41are all 0	R/W
Record field24	0237h			R/W
Record field25	0238h			R/W
Record field26	0239h		initial	R/W
Record field27	023Ah		Record field01~Record field41are all 0	R/W
Record field28	023Bh			R/W
Record field29	023Ch			R/W
Record field30	023Dh			R/W
Record field31	023Eh			R/W
Record field32	023Fh			R/W
Record field33	0240h			R/W
Record field34	0241h			R/W
Record field35	0242h			R/W
Record field36	0243h			R/W
Record field37	0244h			R/W
Record field38	0245h			R/W
Record field39	0246h			R/W
Record field40	0247h			R/W
Record field41	0248h			R/W

Name	Address	Range	Explain	Initial	R/W
Freq	0000h	45.00~65.00Hz	Frequency		R
UAB	0001h	0~9999	A-B phase line voltage		R
UBC	0002h	0~9999	B-C phase line voltage		R
UCA	0003h	0~9999	C-A phase line voltage		R
ULL.AVG	0004h	0~9999	Average line voltage		R
IA1	0005h	0~9999	Loop 1 A phase line current		R
IB1	0006h	0~9999	Loop 1 B phase line current		R
IC1	0007h	0~9999	Loop 1 C phase line current		R
I.AVG1)	0008h	0~9999	Loop 1 Average line current		R
IA2	0009h	0~9999	Loop 2 A phase line current		R
IB2	000Ah	0~9999	Loop 2 B phase line current		R
IC2	000Bh	0~9999	Loop 2 C phase line current		R
I.AVG2	000Ch	0~9999	Loop 2 Average line current		R
PA1	000Dh	-32768~32767	Loop 1 A-B phase active power		R
PC1	000Eh	-32768~32767	Loop 1 C-B phase active power		R
P.SUM1	000Fh	-32768~32767	Loop 1 total active power		R
QA1	0010h	-32768~32767	Loop 1 A-B phase reactive power		R
QC1	0011h	-32768~32767	Loop 1 C-B phase reactive power		R
Q.SUM1	0012h	-32768~32767	Loop 1 total reactive power		R
SA1	0013h	0~32767	Loop 1 A-B apparent power		R
SC1	0014h	0~32767	Loop 1 C-B apparent power		R
S.SUM1	0015h	0~32767	Loop 1 total apparent power		R
PFA1	0016h	-1.000~1.000	Loop 1 A-B phase Power Factor		R
PFC1	0017h	-1.000~1.000	Loop 1 B-C phase Power Factor		R
PF.AVG1	0018h	-1.000~1.000	Loop 1 average power factor		R
PA2	0019h	-32768~32767	Loop 2 A-B phase active power		R
PC2	001Ah	-32768~32767	Loop 2 C-B phase active power		R
P.SUM2	001Bh	-32768~32767	Loop 2 total active power		R
QA2	001Ch	-32768~32767	Loop 2 A-B phase reactive power		R
QC2	001Dh	-32768~32767	Loop 2 C-B phase reactive power		R
Q.SUM2	001Eh	-32768~32767	Loop 2 total reactive power		R
SA2	001Fh	0~32767	Loop 2 A-B apparent power		R
SC2	0020h	0~32767	Loop 2 C-B apparent power		R
S.SUM2	0021h	0~32767	Loop 2 total apparent power		R
PFA2	0022h	-1.000~1.000	Loop 2 A-B phase Power Factor		R
PFC2	0023h	-1.000~1.000	Loop 2 B-C phase Power Factor		R
PF.AVG2	0024h	-1.000~1.000	Loop 2 average power factor		R
A.E1	0027h	0~99999.9kWH	Loop 1 total active energy(High Word)		R
A.E1	0028h		Loop 1 total active energy(Low Word)		R
R.E1	0029h	0~99999.9kVARH	Loop 1 total reactive energy(High Word)		R
R.E1	002Ah		Loop 1 total reactive energy(Low Word)		R
A.E2	002Bh	0~99999.9kWH	Loop 2 total active energy(High Word)		R
A.E2	002Ch		Loop 2 total active energy(Low Word)		R
R.E2	002Dh	0~99999.9kVARH	Loop 2 total reactive energy(High Word)		R
R.E2	002Eh		Loop 2 total reactive energy(Low Word)		R

Relay Status and Control(CODE : 01h , 05h):

	0000h		Relay 1 status	bit0~bit4 behalf relay 1~relay 5 state, 1=on, 0=off; code 05 is relay control, at register address write Ff00h or 0000h make the relay on or off. Be noted, relay mode is Ro write FF00h or 0000h, relay mode is Lo.HLd or Hi.HLd write 0000h, rest model is non-writable		R/W
	0001h		Relay 2 status			R/W
	0002h		Relay 3 status			R/W
	0003h		Relay 4 status			R/W
	0004h		Relay 5 status			R/W

General operating Level(CODE : 03h , 06h , 10h): Input Group

WIRE	003Fh	0~5	0:1P2W 1:1P3W 2:3P3W 3:3P4W 4:3P3W-b 5:3P4W-b			R
LOOP	0040h	0~1	number of loop 0: 1LOOP 1: 2LOOP			R
FLASH	0041h	0~65535	FLASH remaining time			R
U.UNIT	0043h	0~1	PT primary voltage unit 0:V 1:kV	0		R/W
PT.PRI	0044h		PT primary voltage	5000		R/W
PT.SEC	0045h		PT primary voltage	5000		R/W
CT.PRI	0046h		CT primary current	50		R/W
V.UNT	0047h	0~4	Voltage display unit and resolution setting 0:0.1 1:1 2:0.01k 3:0.1k 4:1k (V)	0		R/W
I.UNT	0048h	0~3	Current display units and resolution setting 0:0.001 1:0.01 2:0.1 3:1 (A)	0		R/W
W.UNT	0049h	0~7	Power display unit and resolution settings 0:0.1 1:1 2:0.01k 3:0.1k 4:1k 5:0.01M 6:0.1M 7:1M (W)	0		R/W
Lo.CUT	004Ah	0~10000	Current display low cut	40		R/W
P.CODE	004Bh	0~9999	Modify the P.COD	1000		R/W
b.Light	004Ch	0~15	Backlight time 0(Always lights)~15Min	1		R/W
dSPLY	004Dh	1Loop0~22 2Loop0~40	Select Permanent screen 1Loop=>0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:PA1 10:PC1 11:P.SUM1 12:QA1 13:QC1 14:Q.SUM1 15:SA1 16:SC1 17:S.SUM1 18:PFA1 19:PFC1 20:PF.AVG1 21:A.E1 22;R.E1 2Loop=>0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:IA2 10:IB2 11:IC2 12:I.AVG2 13:PA1 14:PC1 15:P.SUM1 16:QA1 17:QC1 18:Q.SUM1 19:SA1 20:SC1 21:S.SUM1 22:PFA1 23:PFC1 24:PF.AVG1 25:PA2 26:PC2 27:P.SUM2 28:QA2 29:QC2 30:Q.SUM2 31:SA2 32:SC2 33:S.SUM2 34:PFA2 35:PFC2 36:PF.AVG2 37:A.E1 38:R.E1 39:A.E2 40:R.E2	0		R/W
F.LOCK	004Eh	0~3	0:NONE 1:USER 2:ENG. 3:ALL	0		R/W
EEP STATUS	004Fh	0~3	0:OK 1: EEPROM NG 2: FLASH NG 3: EEPROM & FLASH NG	0		R
tL.rst	0050h		Clear Energy (Write 2100)	0		R/W

Relay output function group

			Relay 1 action parameters 1 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:PA1 10:PC1 11:P.SUM1 12:QA1 13:QC1 14:Q.SUM1 15:SA1 16:SC1 17:S.SUM1 18:PFA1 19:PFC1 20:PF.AVG1 2 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:IA2 10:IB2 11:IC2 12:I.AVG2 13:PA1 14:PC1 15:P.SUM1 16:QA1 17:QC1 18:Q.SUM1 19:SA1 20:SC1 21:S.SUM1 22:PFA1 23:PFC1 24:PF.AVG1 25:PA2 26:PC2 27:P.SUM2 28:QA2 29:QC2 30:Q.SUM2 31:SA2 32:SC2 33:S.SUM2 34:PFA2 35:PFC2 36:PF.AVG2		
RY1.SL	0051h	1Loop0~20 2Loop0~36	Relay 1 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	8	R/W
RY1.MD	0052h	0~5	Relay 1 set point	1000	R/W
RY1.SP	0053h	-32768~32767	Relay 1 start band	0	R/W
RY1.Sb	0054h	0~9999	Relay1start delay time	0	R/W
RY1.Sd	0055h	0000~5999 (0.1second)	Relay 1 hysteresis time	0	R/W
RY1.Hy	0056h	0~9999	Relay 1 start delay time	0	R/W
RY1.rd	0057h	0000~5999 (0.1second)	Relay 1 de-energizeddelay time	0	R/W
RY1.Fd	0058h	0000~5999 (0.1second)			

RY2.SL	0059h	1Loop 0~20 2Loop 0~36	Relay 2 action parameters 1Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:PA1 10:PC1 11:P.SUM1 12:QA1 13:QC1 14:Q.SUM1 15:SA1 16:SC1 17:S.SUM1 18:PFA1 19:PFC1 20:PF.AVG1 2 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:IA2 10:IB2 11:IC2 12:I.AVG2 13:PA1 14:PC1 15:P.SUM1 16:QA1 17:QC1 18:Q.SUM1 19:SA1 20:SC1 21:S.SUM1 22:PFA1 23:PFC1 24:PF.AVG1 25:PA2 26:PC2 27:P.SUM2 28:QA2 29:QC2 30:Q.SUM2 31:SA2 32:SC2 33:S.SUM2 34:PFA2 35:PFC2 36:PF.AVG2	8	R/W
RY2.MD	005Ah	0~5	Relay 2 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY2.SP	005Bh	-32768~32767	Relay 2 set point	2000	R/W
RY2.Sb	005Ch	0~9999	Relay 2 start band	0	R/W
RY2.Sd	005Dh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Hy	005Eh	0~9999	Relay 2 hysteresis time	0	R/W
RY2.rd	005Fh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Fd	0060h	0000~5999 (0.1second)	Relay 2 de-energizeddelay time	0	R/W

			Relay 3 action parameters 1 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:PA1 10:PC1 11:P.SUM1 12:QA1 13:QC1 14:Q.SUM1 15:SA1 16:SC1 17:S.SUM1 18:PFA1 19:PFC1 20:PF.AVG1 2 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:IA2 10:IB2 11:IC2 12:I.AVG2 13:PA1 14:PC1 15:P.SUM1 16:QA1 17:QC1 18:Q.SUM1 19:SA1 20:SC1 21:S.SUM1 22:PFA1 23:PFC1 24:PF.AVG1 25:PA2 26:PC2 27:P.SUM2 28:QA2 29:QC2 30:Q.SUM2 31:SA2 32:SC2 33:S.SUM2 34:PFA2 35:PFC2 36:PF.AVG2		
RY3.SL	0061h	1Loop 0~20 2Loop 0~36	Relay 3 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	8	R/W
RY3.MD	0062h	0~5	Relay 3 action mode	2	R/W
RY3.SP	0063h	-32768~32767	Relay 3 start band	3000	R/W
RY3.Sb	0064h	0~9999	Relay 3 start delay time	0	R/W
RY3.Sd	0065h	0000~5999 (0.1second)	Relay 3 hysteresis time	0	R/W
RY3.Hy	0066h	0~9999	Relay 3 start delay time	0	R/W
RY3.rd	0067h	0000~5999 (0.1second)	Relay 3 de-energizeddelay time	0	R/W
RY3.Fd	0068h	0000~5999 (0.1second)			

RY4.SL	0069h	1Loop 0~20 2Loop 0~36	Relay 4 action parameters 1 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:PA1 10:PC1 11:P.SUM1 12:QA1 13:QC1 14:Q.SUM1 15:SA1 16:SC1 17:S.SUM1 18:PFA1 19:PFC1 20:PF.AVG1 2 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:IA2 10:IB2 11:IC2 12:I.AVG2 13:PA1 14:PC1 15:P.SUM1 16:QA1 17:QC1 18:Q.SUM1 19:SA1 20:SC1 21:S.SUM1 22:PFA1 23:PFC1 24:PF.AVG1 25:PA2 26:PC2 27:P.SUM2 28:QA2 29:QC2 30:Q.SUM2 31:SA2 32:SC2 33:S.SUM2 34:PFA2 35:PFC2 36:PF.AVG2	8	R/W
RY4.MD	006Ah	0~5	Relay 4 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY4.SP	006Bh	-32768~32767	Relay 4 set point	4000	R/W
RY4.Sb	006Ch	0~9999	Relay 4 start band	0	R/W
RY4.Sd	006Dh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Hy	006Eh	0~9999	Relay 4 hysteresis time	0	R/W
RY4.rd	006Fh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Fd	0070h	0000~5999 (0.1second)	Relay 4 de-energizeddelay time	0	R/W

			Relay 5 action parameters 1Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:PA1 10:PC1 11:P.SUM1 12:QA1 13:QC1 14:Q.SUM1 15:SA1 16:SC1 17:S.SUM1 18:PFA1 19:PFC1 20:PF.AVG1 2 Loop==> 0:Freq. 1:UAB 2:UBC 3:UCA 4:ULL.AVG 5:IA1 6:IB1 7:IC1 8:I.AVG1 9:IA2 10:IB2 11:IC2 12:I.AVG2 13:PA1 14:PC1 15:P.SUM1 16:QA1 17:QC1 18:Q.SUM1 19:SA1 20:SC1 21:S.SUM1 22:PFA1 23:PFC1 24:PF.AVG1 25:PA2 26:PC2 27:P.SUM2 28:QA2 29:QC2 30:Q.SUM2 31:SA2 32:SC2 33:S.SUM2 34:PFA2 35:PFC2 36:PF.AVG2		
RY5.SL	0071h	1Loop 0~20 2Loop 0~36	8	R/W	
RY5.MD	0072h	0~5	2	R/W	
RY5.SP	0073h	-32768~32767	5000	R/W	
RY5.Sb	0074h	0~9999	0	R/W	
RY5.Sd	0075h	0000~5999 (0.1second)	0	R/W	
RY5.Hy	0076h	0~9999	0	R/W	
RY5.rd	0077h	0000~5999 (0.1second)	0	R/W	
RY5.Fd	0078h	0000~5999 (0.1second)	0	R/W	

Communication function group

Addr	007Bh	1~255	Station number	1	R/W
Baud	007Ch	0~5	Transmission rate 0:1200 1:2400 2:4800 3:9600 4:19200 5:38400	4	R/W
Prity	007Dh	0~3	Parity Check 0:N.8.1 1:N.8.2 2:E.8.1 3:O.8.1	1	R/W
Format	007Eh	0~1	0:High 1:Lo	0	R/W

Date Time function group

Year	007Fh	2000~2099	Year	2012	R/W
Month	0080h	1~12	Month	1	R/W
Day	0081h	1~31	Date	1	R/W
Hour	0082h	0~23	Hour	0	R/W
Minute	0083h	0~59	Time	0	R/W
Second	0084h	0~59	Second	0	R/W

FLASH read(CODE : 03h , 06h)

	0200h		The number of each record WORD		R
	0201h		Unread items		R
	0202h		Read the next record, if no data returned error code 0020h		R
	0203h	0~2	Read status reports 0:Clear all records 1:Give up this read 2:Read successfully		W
	0204h	0~1	Stop recording 0:Stop 1:Restart	1	R/W

FLASH setting(CODE : 03h , 06h , 10h)

	0210h	0~1	0:Full Record 1:Individual choice	0	R/W
	0211h	1~32767	The value of the recording interval time	15	R/W
	0212h	0~3	Recording interval time units 0:sec 1:min 2:hour 3:day	1	R/W
	0213h	2000~2099	Start recording time -Year	2012	R/W
	0214h	1~12	Start recording time -Month	1	R/W
	0215h	1~31	Start recording time -Day	1	R/W
	0216h	0~23	Start recording time -Hour	0	R/W
	0217h	0~59	Start recording time -Minute	0	R/W
	0218h	0~59	Start recording time -Second	0	R/W
	0219h	2000~2099	Stop recording time-Year	2012	R/W
	021Ah	1~12	Stop recording time-Month	1	R/W
	021Bh	1~31	Stop recording time-Day	1	R/W
	021Ch	0~23	Stop recording time-Hour	0	R/W
	021Dh	0~59	Stop recording time-Minute	0	R/W
	021Eh	0~59	Stop recording time-Second	0	R/W
	021Fh	0~1	Stop / Start recording 0:Stop 1:Start	0	R/W

Record field01	0220h		Record field, store the recorded content index 1Loop==> 0:none 1:Freq. 2:UAB 3:UBC 4:UCA 5:ULL.AVG 6:IA1 7:IB1 8:IC1 9:I.AVG1 10:PA1 11:PC1 12:P.SUM1 13:QA1 14:QC1 15:Q.SUM1 16:SA1 17:SC1 18:S.SUM1 19:PFA1 20:PFC1 21:PF.AVG1 22:A.E1 23:R.E1 2Loop==> 0:none 1:Freq. 2:UAB 3:UBC 4:UCA 5:ULL.AVG 6:IA1 7:IB1 8:IC1 9:I.AVG1 10:IA2 11:IB2 12:IC2 13:I.AVG2 14:PA1 15:PC1 16:P.SUM1 17:QA1 18:QC1 19:Q.SUM1 20:SA1 21:SC1 22:S.SUM1 23:PFA1 24:PFC1 25:PF.AVG1 26:PA2 27:PC2 28:P.SUM2 29:QA2 30:QC2 31:Q.SUM2 32:SA2 33:SC2 34:S.SUM2 35:PFA2 36:PFC2 37:PF.AVG2 38:A.E1 39:R.E1 40:A.E2 41:R.E2 1Loop(Balanced)==> 0:none 1:Freq. 2:UAB 3:UBC 4:UCA 5:ULL.AVG 6:IA1 7:PA1 8:P.SUM1 9:QA1 10:Q.SUM1 11:SA1 12:S.SUM1 13:PFA1 14:A.E1 15:R.E1 2Loop(Balanced)==> 0:none 1:Freq. 2:UAB 3:UBC 4:UCA 5:ULL.AVG 6:IA1 7:IA2 8:PA1 9:P.SUM1 10:QA1 11:Q.SUM1 12:SA1 13:S.SUM1 14:PFA1 15:PA2 16:P.SUM2 17:QA2 18:Q.SUM2 19:SA2 20:S.SUM2 21:PFA2 22:A.E1 23:R.E1 24:A.E2 25:R.E2 initial(Full Record) 1loop==> Record field 01Record field23 Sequence 1~23, Record field24~Record field41 all 0 2loop==> Record field01~Record field 41Sequence 1~41 1loop(Balanced)==> Record field 01~Record field15Sequence1~15, Sequence16~Sequence41all 0 2loop(Balanced)==> Record field01~Record field 25 Sequence1~25, Sequence26~Sequence41all 0 initial Record field01~Record field 41all 0	R/W
Record field02	0221h			R/W
Record field03	0222h			R/W
Record field04	0223h			R/W
Record field05	0224h			R/W
Record field06	0225h			R/W
Record field07	0226h			R/W
Record field08	0227h			R/W
Record field09	0228h			R/W
Record field10	0229h			R/W
Record field11	022Ah			R/W
Record field12	022Bh			R/W
Record field13	022Ch			R/W
Record field14	022Dh			R/W
Record field15	022Eh			R/W
Record field16	022Fh			R/W
Record field17	0230h			R/W
Record field18	0231h			R/W
Record field19	0232h			R/W
Record field20	0233h			R/W
Record field21	0234h			R/W
Record field22	0235h			R/W
Record field23	0236h			R/W
Record field24	0237h			R/W
Record field25	0238h			R/W
Record field26	0239h			R/W
Record field27	023Ah			R/W
Record field28	023Bh			R/W
Record field29	023Ch			R/W
Record field30	023Dh			R/W
Record field31	023Eh			R/W
Record field32	023Fh			R/W
Record field33	0240h			R/W
Record field34	0241h			R/W
Record field35	0242h			R/W
Record field36	0243h			R/W
Record field37	0244h			R/W
Record field38	0245h			R/W
Record field39	0246h			R/W
Record field40	0247h			R/W
Record field41	0248h			R/W

Name	Address	Range	Explain	Initial	R/W
Freq.	0000h	45.00~65.00Hz	Frequency		R
UA	0001h	0~9999	A phase-phase voltage		R
UB	0002h	0~9999	B phase-phase voltage		R
UC	0003h	0~9999	C phase-phase voltage		R
ULN.AVG	0004h	0~9999	Average phase voltage		R
UAB	0005h	0~9999	A-B phase line voltage		R
UBC	0006h	0~9999	B-C phase line voltage		R
UCA	0007h	0~9999	C-A phase line voltage		R
ULL.AVG	0008h	0~9999	Average line voltage		R
IA	0009h	0~9999	A phase line current		R
IB	000Ah	0~9999	B phase line current		R
IC	000Bh	0~9999	C phase line current		R
IN	000Ch	0~9999	Neutral current		R
I.AVG	000Dh	0~9999	Average current		R
PA	000Eh	-32768~32767	A phase active power		R
PB	000Fh	-32768~32767	B phase active power		R
PC	0010h	-32768~32767	C phase active power		R
P.SUM	0011h	-32768~32767	total active power		R
QA	0012h	-32768~32767	A phase reactive power		R
QB	0013h	-32768~32767	B phase reactive power		R
QC	0014h	-32768~32767	C phase reactive power		R
Q.SUM	0015h	-32768~32767	total reactive power		R
SA	0016h	0~32767	A apparent power		R
SB	0017h	0~32767	B apparent power		R
SC	0018h	0~32767	C apparent power		R
S.SUM	0019h	0~32767	total apparent power		R
PFA	001Ah	-1.000~1.000	A phase Power Factor		R
PFB	001Bh	-1.000~1.000	B phase Power Factor		R
PFC	001Ch	-1.000~1.000	C phase Power Factor		R
PF.AVG	001Dh	-1.000~1.000	average power factor		R
A.E1	0027h	0~99999.9kWH	Loop 1 total active energy(High Word)		R
A.E1	0028h		Loop 1 total active energy(Low Word)		R
R.E1	0029h	0~99999.9kVARH	Loop 1 total reactive energy(High Word)		R
R.E1	0030h		Loop 1 total reactive energy(Low Word)		R

Relay Status and Control(CODE : 01h , 05h):

	0000h		Relay 1 status	bit0~bit4 behalf relay 1~relay 5 state, 1=on, 0=off; code 05 is relay control, at register address write Ff00h or 0000h make the relay on or off. Be noted, relay mode is Ro write FF00h or 0000h, relay mode is Lo.HLd or Hi.HLd write 0000h, rest model is non-writable	R/W
	0001h		Relay 2 status		R/W
	0002h		Relay 3 status		R/W
	0003h		Relay 4 status		R/W
	0004h		Relay 5 status		R/W

General operating Level(CODE : 03h , 06h , 10h):

WIRE	003Fh	0~5	0:1P2W 1:1P3W 2:3P3W 3:3P4W 4:3P3W-b 5:3P4W-b		R
LOOP	0040h	0	number of loop 0: 1LOOP		R
FLASH	0041h	0~65535	FLASH remaining time		R

General operating Level(CODE : 03h , 06h , 10h): Input Group

U.UNIT	0043h	0~1	PT primary voltage unit 0:V 1:kV	0	R/W
PT.PRI	0044h		PT primary voltage	5000	R/W
PT.SEC	0045h		PT secondary voltage	5000	R/W
CT.PRI	0046h		CT primary current	50	R/W
V.UNT	0047h	0~4	Voltage display unit and resolution setting 0:0.1(V) 1:1(V) 2:0.01k(V) 3:0.1k(V) 4:1k(V)	0	R/W
I.UNT	0048h	0~3	Current display units and resolution setting 0:0.001(A) 1:0.01(A) 2:0.1(A) 3:1(A)	0	R/W
W.UNT	0049h	0~7	Power display unit and resolution settings 0:0.1(W) 1:1(W) 2:0.01k(W) 3:0.1k(W) 4:1k(W) 5:0.01M(W) 6:0.1M(W) 7:1M(W)	0	R/W
Lo.CUT	004Ah	0~10000	Current display low cut	40	R/W
P.CODE	004Bh	0~9999	Modify the P.COD	1000	R/W
b.Light	004Ch	0~15	Backlight time 0(Always lights)~15Min	1	R/W
dSPLY	004Dh	0~31	Select Permanent screen 0:Freq. 1:UA 2:UB 3:UC 4:ULN.AVG 5:UAB 6:UBC 7:UCA 8:ULL.AVG 9:IA 10:IB 11:IC 12:IN 13:I.AVG 14:PA 15:PB 16:PC 17:P.SUM 18:QA 19:QB 20:QC 21:Q.SUM 22:SA 23:SB 24:SC 25:S.SUM 26:PFA 27:PFB 28:PFC 29:PF.AVG 30:A.E1 31:R.E1	0	R/W

F.LOCK	004Eh	0~3	0:NONE 1:USER 2:ENG. 3:ALL	0	R/W
EEP STATUS	004Fh	0~3	0:OK 1: EEPROM NG 2: FLASH NG 3: EEPROM & FLASH NG	0	R
tL.rst	0050h		Clear Energy (Write 2100)	0	R/W

Relay Status and Control(CODE : 01h , 05h):

	0000h		Relay 1 status	bit0~bit4代表繼電器1~繼電器5的狀態,1=on, 0=off;功能碼05為繼電器控制,在相對應的暫存器位址寫入FF00h或0000h可使該繼電器on或off。須注意,當繼電器動作模式為R0時可寫入FF00h或0000h,當繼電器動作模式為Lo.HLD或Hi.HLD時只可寫入0000h,其餘模式完全不可寫入	R/W
	0001h		Relay 2 status		R/W
	0002h		Relay 3 status		R/W
	0003h		Relay 4 status		R/W
	0004h		Relay 5 status		R/W

Relay output function group

RY1.SL	0051h	0~29	Relay 1 action parameters 0:Freq. 1:UA 2:UB 3:UC 4:ULN.AVG 5:UAB 6:UBC 7:UCA 8:ULL.AVG 9:IA 10:IB 11:IC 12:IN 13:I.AVG 14:PA 15:PB 16:PC 17:P.SUM 18:QA 19:QB 20:QC 21:Q.SUM 22:SA 23:SB 24:SC 25:S.SUM 26:PFA 27:PFB 28:PFC 29:PF.AVG	13	R/W
RY1.MD	0052h	0~5	Relay 1 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLD 4:Hi.HLD 5:RO	2	R/W
RY1.SP	0053h	-32768~32767	Relay 1 set point	1000	R/W
RY1.Sb	0054h	0~9999	Relay 1 start band	0	R/W
RY1.Sd	0055h	0000~5999 (0.1second)	Relay 1 start delay time	0	R/W
RY1.Hy	0056h	0~9999	Relay 1 hysteresis time	0	R/W
RY1.rd	0057h	0000~5999 (0.1second)	Relay 1 start delay time	0	R/W
RY1.Fd	0058h	0000~5999 (0.1second)	Relay 1 de-energized delay time	0	R/W
RY2.SL	0059h	0~29	Relay 2 action parameters 0:Freq. 1:UA 2:UB 3:UC 4:ULN.AVG 5:UAB 6:UBC 7:UCA 8:ULL.AVG 9:IA 10:IB 11:IC 12:IN 13:I.AVG 14:PA 15:PB 16:PC 17:P.SUM 18:QA 19:QB 20:QC 21:Q.SUM 22:SA 23:SB 24:SC 25:S.SUM 26:PFA 27:PFB 28:PFC 29:PF.AVG	13	R/W
RY2.MD	005Ah	0~5	Relay 2 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLD 4:Hi.HLD 5:RO	2	R/W
RY2.SP	005Bh	-32768~32767	Relay 2 set point	2000	R/W
RY2.Sb	005Ch	0~9999	Relay 2 start band	0	R/W
RY2.Sd	005Dh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Hy	005Eh	0~9999	Relay 2 hysteresis time	0	R/W
RY2.rd	005Fh	0000~5999 (0.1second)	Relay 2 start delay time	0	R/W
RY2.Fd	0060h	0000~5999 (0.1second)	Relay 2 de-energized delay time	0	R/W

RY3.SL	0061h	0~29	Relay 3 action parameters 0:Freq. 1:UA 2:UB 3:UC 4:ULN.AVG 5:UAB 6:UBC 7:UCA 8:ULL.AVG 9:IA 10:IB 11:IC 12:IN 13:I.AVG 14:PA 15:PB 16:PC 17:P.SUM 18:QA 19:QB 20:QC 21:Q.SUM 22:SA 23:SB 24:SC 25:S.SUM 26:PFA 27:PFB 28:PFC 29:PF.AVG	13	R/W
RY3.MD	0062h	0~5	Relay 3 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:DO	2	R/W
RY3.SP	0063h	-32768~32767	Relay 3 action mode	3000	R/W
RY3.Sb	0064h	0~9999	Relay 3 start band	0	R/W
RY3.Sd	0065h	0000~5999 (0.1second)	Relay 3 start delay time	0	R/W
RY3.Hy	0066h	0~9999	Relay 3 hysteresis time	0	R/W
RY3.rd	0067h	0000~5999 (0.1second)	Relay 3 start delay time	0	R/W
RY3.Fd	0068h	0000~5999 (0.1second)	Relay 3 de-energizeddelay time	0	R/W
RY4.SL	0069h	0~29	Relay 4 action parameters 0:Freq. 1:UA 2:UB 3:UC 4:ULN.AVG 5:UAB 6:UBC 7:UCA 8:ULL.AVG 9:IA 10:IB 11:IC 12:IN 13:I.AVG 14:PA 15:PB 16:PC 17:P.SUM 18:QA 19:QB 20:QC 21:Q.SUM 22:SA 23:SB 24:SC 25:S.SUM 26:PFA 27:PFB 28:PFC 29:PF.AVG	13	R/W
RY4.MD	006Ah	0~5	Relay 4 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY4.SP	006Bh	-32768~32767	Relay 4 set point	4000	R/W
RY4.Sb	006Ch	0~9999	Relay 4 start band	0	R/W
RY4.Sd	006Dh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Hy	006Eh	0~9999	Relay 4 hysteresis time	0	R/W
RY4.rd	006Fh	0000~5999 (0.1second)	Relay 4 start delay time	0	R/W
RY4.Fd	0070h	0000~5999 (0.1second)	Relay 4 de-energizeddelay time	0	R/W

RY5.SL	0071h	0~29	Relay 5 action parameters 0:Freq. 1:UA 2:UB 3:UC 4:ULN.AVG 5:UAB 6:UBC 7:UCA 8:ULL.AVG 9:IA 10:IB 11:IC 12:IN 13:I.AVG 14:PA 15:PB 16:PC 17:P.SUM 18:QA 19:QB 20:QC 21:Q.SUM 22:SA 23:SB 24:SC 25:S.SUM 26:PFA 27:PFB 28:PFC 29:PF.AVG	13	R/W
RY5.MD	0072h	0~5	Relay 5 action mode 0:OFF 1:Lo 2:Hi 3:Lo.HLd 4:Hi.HLd 5:RO	2	R/W
RY5.SP	0073h	-32768~32767	Relay 5 set point	5000	R/W
RY5.Sb	0074h	0~9999	Relay 5 start band	0	R/W
RY5.Sd	0075h	0000~5999 (0.1second)	Relay 5 start delay time	0	R/W
RY5.Hy	0076h	0~9999	Relay 5 hysteresis time	0	R/W
RY5.rd	0077h	0000~5999 (0.1second)	Relay 5 start delay time	0	R/W
RY5.Fd	0078h	0000~5999 (0.1second)	Relay 5 de-energizeddelay time	0	R/W

Communication function group

Addr	007Bh	1~255	Station number	1	R/W
Baud	007Ch	0~5	Transmission rate 0:1200 1:2400 2:4800 3:9600 4:19200 5:38400	4	R/W
Prity	007Dh		Parity Check 0:N.8.1 1:N.8.2 2:E.8.1 3:O.8.1	1	R/W
Format	007Eh	0~1	0:High 1:Lo	0	R/W

Date Time function group

Year	007Fh	2000~2099	Year	2012	R/W
Month	0080h	1~12	Month	1	R/W
Day	0081h	1~31	Date	1	R/W
Hour	0082h	0~23	Time	0	R/W
Minute	0083h	0~59	Minute	0	R/W
Second	0084h	0~59	Second	0	R/W

FLASH read(CODE : 03h , 06h)

	0200h		The number of each record WORD		R
	0201h		Unread items		R
	0202h		Read the next record, if no data returned error code 0020h		R
	0203h	0~2	Read status reports 0:Clear all records 1:Give up this read 2:Read successfully		W
	0204h	0~1	Stop recording 0:Stop 1:Restart	1	R/W

FLASH setting(CODE : 03h , 06h , 10h)

	0210h	0~1	0:Full Record 1:Individual choice	0	R/W
	0211h	1~32767	The value of the recording interval time	15	R/W
	0212h	0~3	Recording interval time units 0:sec 1:min 2:hour 3:day	1	R/W
	0213h	2000~2099	Start recording time -Year	2012	R/W
	0214h	1~12	Start recording time -Month	1	R/W
	0215h	1~31	Start recording time -Day	1	R/W
	0216h	0~23	Start recording time -Hour	0	R/W
	0217h	0~59	Start recording time -Minute	0	R/W
	0218h	0~59	Start recording time -Second	0	R/W
	0219h	2000~2099	Stop recording time-Year	2012	R/W
	021Ah	1~12	Stop recording time-Month	1	R/W
	021Bh	1~31	Stop recording time-Day	1	R/W
	021Ch	0~23	Stop recording time-Hour	0	R/W
	021Dh	0~59	Stop recording time-Minute	0	R/W
	021Eh	0~59	Stop recording time-Second	0	R/W
	021Fh	0~1	Stop / Start recording 0:Stop 1:Start	0	R/W

Record field01	0220h	1Loop0~32 1Loop(Balanced) 0~19	Record field, store the recorded content index 1Loop==> 0:none 1:Freq. 2:UA 3:UB 4:UC 5:ULN.AVG 6:UAB 7:UBC 8:UCA 9:ULL.AVG 10:IA 11:IB 12:IC 13:IN 14:I.AVG 15:PA 16:PB 17:PC 18:P.SUM 19:QA 20:QB 21:QC 22:Q.SUM 23:SA 24:SB 25:SC 26:S.SUM 27:PFA 28:PFB 29:PFC 30:PF.AVG 31:A.E1 32:R.E1 1迴路(Balanced)==> 0:none 1:Freq. 2:UA 3:UB 4:UC 5:ULN.AVG 6:UAB 7:UBC 8:UCA 9:ULL.AVG 10:IA 11:PA 12:P.SUM 13:QA 14:Q.SUM 15:SA 16:S.SUM 17:PFA 18:A.E1 19:R.E1	R/W
Record field02	0221h			R/W
Record field03	0222h			R/W
Record field04	0223h			R/W
Record field05	0224h			R/W
Record field06	0225h			R/W
Record field07	0226h			R/W
Record field08	0227h			R/W
Record field09	0228h			R/W
Record field10	0229h			R/W
Record field11	022Ah			R/W
Record field12	022Bh			R/W
Record field13	022Ch			R/W
Record field14	022Dh			R/W
Record field15	022Eh			R/W
Record field16	022Fh			R/W
Record field17	0230h			R/W
Record field18	0231h			R/W
Record field19	0232h		initial(Full Record)	R/W
Record field20	0233h		1loop==> Record field01~Record field20 Sequence1~20, Record field21~Record field41all 0	R/W
Record field21	0234h			R/W
Record field22	0235h			R/W
Record field23	0236h		2loop==> Record field01~Record field36 Sequence1~36, Record field37~Record field41all 0	R/W
Record field24	0237h			R/W
Record field25	0238h			R/W
Record field26	0239h		initial	R/W
Record field27	023Ah		Record field 01~Record field 41all 0	R/W
Record field28	023Bh			R/W
Record field29	023Ch			R/W
Record field30	023Dh			R/W
Record field31	023Eh			R/W
Record field32	023Fh			R/W
Record field33	0240h			R/W
Record field34	0241h			R/W
Record field35	0242h			R/W
Record field36	0243h			R/W
Record field37	0244h			R/W
Record field38	0245h			R/W
Record field39	0246h			R/W
Record field40	0247h			R/W
Record field41	0248h			R/W

Defined class

Address defined group

※Write this area To define the address, fill in the following table. Done memorandum
 For example, 0000h is written to address 0100h, read address 0100h will read the frequency
 User-defined area(CODE :03h , 06h, 10h) :

Defined position UI display	Defined parameter value Temporary Addresses	Read / Write	Predefined address	Defined address parameter temporary	Read / Write
U.DF01V	0100h	R		1100h	R/W
U.DF02V	0101h	R		1101h	R/W
U.DEF03	0102h	R		1102h	R/W
U.DEF04	0103h	R		1103h	R/W
U.DEF05	0104h	R		1104h	R/W
U.DEF06	0105h	R		1105h	R/W
U.DEF07	0106h	R		1106h	R/W
U.DEF08	0107h	R		1107h	R/W
U.DEF09	0108h	R		1108h	R/W
U.DEF10	0109h	R		1109h	R/W
U.DEF11	010Ah	R		110Ah	R/W
U.DEF12	010Bh	R		110Bh	R/W
U.DEF13	010Ch	R		110Ch	R/W
U.DEF14	010Dh	R		110Dh	R/W
U.DEF15	010Eh	R		110Eh	R/W
U.DEF16	010Fh	R		110Fh	R/W
U.DEF17	0110h	R		1110h	R/W
U.DEF18	0111h	R		1111h	R/W
U.DEF19	0112h	R		1112h	R/W
U.DEF20	0113h	R		1113h	R/W

Usage Examples

The conditions: 1P3W 2Loop When you want to planning U.DF01V defined to read RS485 QL2-1 address 000Ch value of 1000

