AXE   MULTI - FUNCTION DC METER   MM2D-DT
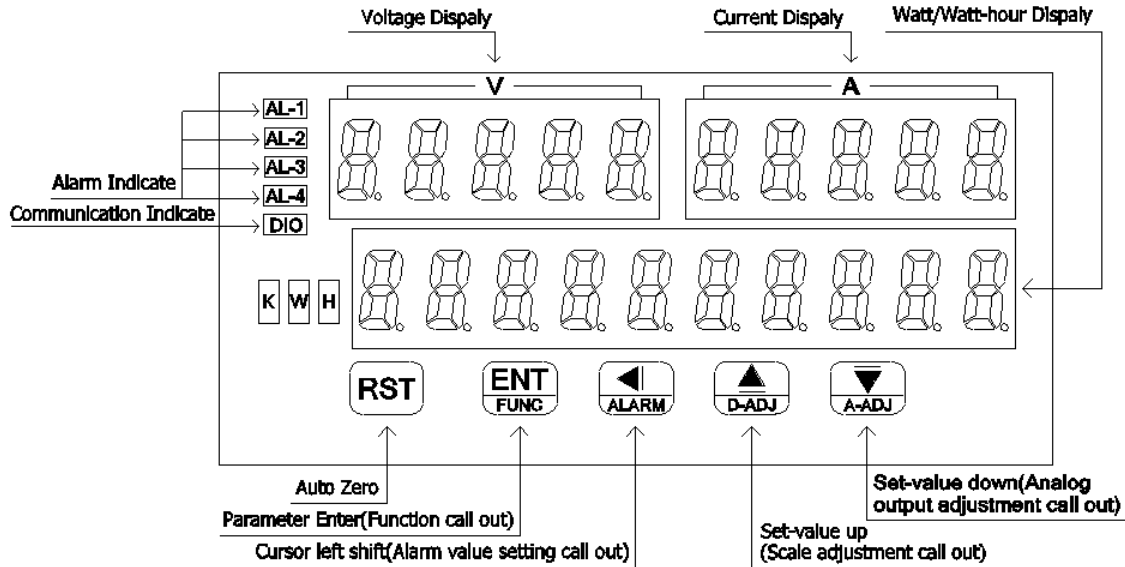
Features

Accuracy 0.03% FS±1 digit(IN-V)/0.05% FS±1 digit(IN-A)	16 bit DAC analog output function(optional)
Measuring and display DCV/DCA/W/KW/WH/KWH	Digit RS485 interface function(optional)
Programmable rate 0 to 99999 digit(rate), 0 to 9999999999 digit(totalizer)	BALD RATE: 19200/ 9600/ 4800/ 2400
	Man-machine interface ,easy to operate
Max. four alarm function(optional)	EEPROM Saving ,data safekeeping about 10 years

Name Of Parts

Alarm Function Diagram

When ACT=HI,DEL= 0: Display value > Setting value(AL) + Hysteresis (HYS) → (Relay on)
    Display value <= Setting value(AL) - Hysteresis (HYS) → (Relay off)
When ACT=LO,DEL= 0: Display value >= Setting value(AL) + Hysteresis (HYS) → (Relay off)
    Display value < Setting value(AL) - Hysteresis (HYS) → (Relay on)
When ACT=HI,DEL= 1 ~ 99 sec.: Display value > Setting value(AL) + Hysteresis (HYS) + Delay time(DEL) → (Relay on)
    Display value <= Setting value(AL) - Hysteresis (HYS) → (Relay off)
When ACT=LO,DEL= 1 ~ 99 sec.: Display value >= Setting value(AL) + Hysteresis (HYS) → (Relay off)
    Display value < Setting value(AL) - Hysteresis (HYS) + Delay time(DEL) → (Relay on)
When ACT=HI,DEL= -1 ~ -99 sec.:Display value > Setting value(AL) + Hysteresis (HYS) → (Relay one shoot(DEL) and then off)
    Display value <= Setting value(AL) - Hysteresis (HYS) → (Relay restore normal after the procedure)
When ACT=LO,DEL= -1 ~ -99 sec.:Display value >= Setting value(AL) + Hysteresis (HYS) → (Relay restore normal after the procedure)
    Display value < Setting value(AL) - Hysteresis (HYS) → (Relay one shoot(DEL) and then off)

Key Introduce	Operation Manual
⒠ key function	1. In normal display,the key function is call out setting group 2. In parameter setting page,the key function is data ENTER and goto next page
◀ key function	1.In normal display,Press ◀ key Keep beyond 3 seconds, will call out alarm value setting page 2.Into parameter setting page,the parameter mark & data is alternate display,If need modify data can press ◀ key into setting procedure,The display is lock parameter data,this time must let off key about 0.2 sec, press again,the cursor (twinkle express)is cycle moving left.(Key response about 0.2 sec.)
▲ key function	1.In normal display,Press ▲ key Keep beyond 3 seconds, will call out adjustment display value page 2.Into parameter setting page,the parameter mark & data is alternate display,If need modify data can press ▲ key into setting procedure,The display is lock parameter data,this time must let off key about 0.2 sec, press again,the parameter data will be increment.(Key response about 0.2 sec.)
▼ key function	1.In normal display,Press ▲ key Keep beyond 3 seconds, will call out adjustment analog output page 2.Into parameter setting page,the parameter mark & data is alternate display,If need modify data can press ▼ key into setting procedure,The display is lock parameter data,this time must let off key about 0.2 sec, press again,the parameter data will be decrement.(Key response about 0.2 sec.)
▲ & ▼ key function	1.In setting group or setting page,Press ▲ & ▼ key will return normal display,but if in setting page the modify data will lost
RST key function	1.Press RST key will reset WH/KWH value

No key in anything	1.In setting group or setting page, No key in anything about 30 sec. will return normal display

Inside parameter operate procedure

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	`0 1234`	1. Press Ⓔ/FUNC key into P.CODE setting page
2	P.CODE(Pass Code) Default = 0	`P.CodE` `00000`	1.Key in 5 digit pass code with ◀&▲&▼ key 2.Press Ⓔ key, If the pass code is correct then into setting group, otherwise, return normal display
3	SYS(System Setting Group)	`SYS`	1.Select setting group with ◀ key 2.Press Ⓔ key into setting page of selection setting group
	ROP(Alarm output Setting Group)	`roP`	
	DOP(Communication setting group)	`doP`	
	AOP(Analog output Setting Group)	`AoP`	
4	SYS(System setting group)	`SYS`	1.Press ◀ key decide SYS setting group 2.Press Ⓔ key into V.DP setting page
4-1	V.DP(Voltage Decimal Point) Default = 0	`u.dP` `0.`	1.Decide Voltage Decimal Point with ▲&▼ key(0-4) 2.Press Ⓔ key enter data and into V.DSPL setting page
4-2	V.DSPL(Voltage Display Lo Scale) Default = 0	`u.dSPL` `00000`	1.Decide Voltage Display Lo Scale with ◀&▲&▼ key(0-99999) 2.Press Ⓔ key enter data and into V.DSPH setting page
4-3	V.DSPH(Voltage Display Hi Scale) Default = 10000	`u.dSPH` `10000`	1.Decide Voltage Display Hi Scale with ◀&▲&▼ key(0-99999) 2.Press Ⓔ key enter data and into A.DP setting page
4-4	A.DP(Current Decimal Point) Default = 0	`A.dP` `0.`	1. Decide Current Decimal Point with ▲&▼ key(0-4) 2. Press Ⓔ key enter data and into A.DSPL setting page
4-5	A.DSPL(Current Display Lo Scale) Default = 0	`A.dSPL` `00000`	1. Decide Current Display Lo Scale with ◀&▲&▼ key(0-99999) 2. Press Ⓔ key enter data and into A.DSPH setting page
4-6	A.DSPH(Current Display Hi Scale) Default = 10000	`A.dSPH` `10000`	1. Decide Current Display Hi Scale with ◀&▲&▼ key(0-99999) 2. Press Ⓔ key enter data and into UNIT setting page
4-7	UNIT(Unit) Default = W	`Unit` `u`	1. Decide Unit with ▲&▼ key(W/KW) 2. Press Ⓔ key enter data and into D10-T setting page
4-8	D10-T(10 Digit Display Time Mode) Default = WH	`d 10-t` `uH`	1. Decide 10 Display Time Mode with ▲&▼ key(W/WH/W-WH) D10-T = W : only display watt/kilowatt, range(0-99999) D10-T = WH: only display watt/kilowatt hour, range(0-9999999999) D10-T = W-WH: alternate display watt and watt-hour by CH-T setting time 2. Press Ⓔ key enter data and into CH-T setting page
4-9	CH-T(Auto Change Time) Default = 10	`CH-t` `00010`	1. Decide Auto Change Time with ◀&▲&▼ key(10-90 sec.) 2. Press Ⓔ key enter data and into W.DP setting page
4-10	W.DP(Watt Decimal Point) Default = 0	`u.dP` `0.`	1. Decide Watt Decimal Point with ▲&▼ key(0-4) 2. Press Ⓔ key enter data and into WH.DP setting page
4-11	WH.DP(Watt-hour Decimal Point) Default = 0	`uH.dP` `0.`	1. Decide Watt-hour Decimal Point with ▲&▼ key(0-4) 2. Press Ⓔ key enter data and into DRSP setting page
4-12	DRSP(Display update rate) Default = 1.0	`d-SP` `1.0`	1. Decide Display update rate with ▲&▼ key (0.1 sec./0.5 sec./1.0 sec./2.0 sec./3.0 sec./4.0 sec./5.0 sec.) 2.Press Ⓔ key enter data and into DF setting page
4-13	DF(Analog Output Digital Filter) Default = 1	`dF` `00001`	1. Decide Analog Output Digital Filter with ◀&▲&▼ key(1~16) 2.Press Ⓔ key enter data and into LCUT setting page
4-14	LCUT(Low cut) Default = 0	`LCUt` `00000`	1. Decide Low cut with ◀&▲&▼ key(0-99) 2. Press Ⓔ key enter data and into CODE setting page

4-15	CODE(Pass Code Setting) Default = 00000	CodE 00000	1.Decide Pass code with ◀ &▲ &▼ key (0-99999) 2.Press (EN) key enter data and into LOCK setting page
4-16	LOCK(Panel Lock) Default = NO	LoCL 00000	1.Decide panel lock with ▲ &▼ key (NO or YES) 2.Press (EN) key enter data and return SYS setting group
5	ROP(Alarm Output setting group)	roP	1.Press ◀ key decide ROP setting group 2.Press (EN) key into AL1-S setting page
5-1	AL1-S(Alarm 1 Select) Default = V	AL1-S u	1. Decide Alarm 1 Select with ▲ &▼ key(V/A/W/WH) 2. Press (EN) key enter data and into ACT1 setting page
5-2	ACT1(Active 1) Default = HI	ACt1 Hi	1.Decide active 1 with ▲ &▼ key (HI or LO) 2.Press (EN) key enter data and into HYS1 setting page
5-3	HYS1(Hysteresis 1) Default = 0	HYS1 00000	1. Decide Hysteresis 1 with ◀ &▲ &▼ key(0-999) 2. Press (EN) key enter data and into DEL1 setting page Note: If AL1-S=WH HYS1 will disable
5-4	DEL1(Delay 1) Default = 0	dEL1 00000	1. Decide Delay 1 with ◀ &▲ &▼ key(-99-99 sec.) 2. Press (EN) key enter data and into AL2-S setting page Note:-1~99 is alarm time, 1~99 is delay time
5-5	AL2-S(Alarm 2 Select) Default = A	AL2-S A	1. Decide Alarm 2 Select with ▲ &▼ key(V/A/W/WH) 2. Press (EN) key enter data and into ACT2 setting page
5-6	ACT2(Active 2) Default = HI	ACt2 Hi	1.Decide active 2 with ▲ &▼ key (HI or LO) 2.Press (EN) key enter data and into HYS2 setting page
5-7	HYS2(Hysteresis 2) Default = 0	HYS2 00000	1. Decide Hysteresis 2 with ◀ &▲ &▼ key(0-999) 2. Press (EN) key enter data and into DEL2 setting page Note: If AL2-S=WH HYS2 will disable
5-8	DEL2(Delay 2) Default = 0	dEL2 00000	1. Decide Delay 2 with ◀ &▲ &▼ key(-99-99 sec.) 2. Press (EN) key enter data and into AL3-S setting page Note:-1~99 is alarm time, 1~99 is delay time
5-9	AL3-S(Alarm 3 Select) Default = W	AL3-S u	1. Decide Alarm 3 Select with ▲ &▼ key(V/A/W/WH) 2. Press (EN) key enter data and into ACT3 setting page
5-10	ACT3(Active 3) Default = HI	ACt3 Hi	1.Decide active 3 with ▲ &▼ key (HI or LO) 2.Press (EN) key enter data and into HYS3 setting page
5-11	HYS3(Hysteresis 3) Default = 0	HYS3 00000	1. Decide Hysteresis 3 with ◀ &▲ &▼ key(0-999) 2. Press (EN) key enter data and into DEL3 setting page Note: If AL3-S=WH HYS3 will disable
5-12	DEL3(Delay 3) Default = 0	dEL3 00000	1. Decide Delay 3 with ◀ &▲ &▼ key(-99-99 sec.) 2. Press (EN) key enter data and into AL4-S setting page Note:-1~99 is alarm time, 1~99 is delay time
5-13	AL4-S(Alarm 4 Select) Default = WH	AL4-S uH	1. Decide Alarm 4 Select with ▲ &▼ key(V/A/W/WH) 2. Press (EN) key enter data and into ACT4 setting page
5-14	ACT4(Active 4) Default = HI	ACt4 Hi	1.Decide active 4 with ▲ &▼ key (HI or LO) 2.Press (EN) key enter data and into HYS4 setting page
5-15	HYS4(Hysteresis 4) Default = 0	HYS4 00000	1. Decide Hysteresis 4 with ◀ &▲ &▼ key(0-999) 2. Press (EN) key enter data and into DEL4 setting page Note: If AL4-S=WH HYS4 will disable
5-16	DEL4(Delay 4) Default = 0	dEL4 00000	1. Decide Delay 4 with ◀ &▲ &▼ key(-99-99 sec.) 2. Press (EN) key enter data and into SB setting page Note:-1~99 is alarm time, 1~99 is delay time
5-17	SB(Start band) Default = 0	Sb 00000	1.Decide SB with ◀ &▲ &▼ key (0-99) 2.Press (EN) key enter data and into SDT setting page Note:Input below SB,Alarm will disable compare&active Note: If ALx-S=WH SB will disable

5-18	SDT(Start Delay Time) Default = 0	`5dt`	1.Decide SDT with ◁ & ▲ & ▼ key (0-99 sec)
		`00000`	2.Press Ⓝ key enter data and return ROP setting group
			Note:Input over SB & reach SDT,Alarm will restore compare & active
			Note: If ALx-S=WH,SDT will disable

6	DOP(Communication setting group)	`doP`	1.Press ◁ key decide DOP setting group
			2.Press Ⓝ key into ADDR setting page
6-1	ADDR(Communication Address) Default = 0	`Addr`	1.Decide address with ◁ & ▲ & ▼ key (0-255)
		`00000`	2.Press Ⓝ key enter data and into BAUD setting page
6-2	BAUD(Communication Baud Rate) Default = 19200	`bAud`	1.Decide baud rate with ▲ & ▼ key (19200,9600,4800,2400)
		`19200`	2.Press Ⓝ key enter data and into PARI setting page
6-3	PARI(Communication Parity Check) Default = n.8.2.	`PAri`	1.Decide parity check with ▲ & ▼ key(n.8.2,n.8.1,even,odd)
		`n.8.2.`	2.Press Ⓝ key enter data and return DOP setting group

7	AOP(Analog Output setting group)	`AoP`	1.Press ◁ key select AOP setting group,
			2.Press Ⓝ key into AO-SEL setting page
7-1	AO-SEL(Analog Output Select) Default = A	`AoSEL`	1.Decide Analog Output Select with ▲ & ▼ key(V/A/W/WH)
		`A`	2.Press Ⓝ key enter data and into ANLO setting page
7-2	ANLO(Analog Output Zero- According to Display) Default = 0	`AnLo`	1.Decide Analog Output Zero-According to Display with ◁ & ▲ & ▼ key (V/A/W=0-99999,WH=0-9999999999)
		`00000`	2.Press Ⓝ key enter data and into ANHI setting page
7-3	ANHI(Analog Output Span- According to Display) Default = 10000	`AnHi`	1.Decide Analog Output Span-According to Display with ◁ & ▲ & ▼ key(V/A/W=0-99999,WH=0-9999999999)
		`10000`	2.Press Ⓝ key return AOP setting group

Outside parameter operate procedure

Step	Parameter Mark Description	Parameter Mark	Operation Manual
8	Normal display	`12345`	1.Press ◁/ALARM about 3 sec, into AL1 setting page
8-1	AL1 (Alarm 1) Default = 0	`AL 1`	1.Decide alarm 1 value with ◁ & ▲ & ▼ key (If AL1-S = V/A/W, Range = 0-99999,If AL1-S = WH, Range = 0-9999999999)
		`00000`	2.Press Ⓝ key enter data and into AL2 setting page
8-2	AL2 (Alarm 2) Default = 0	`AL 2`	1.Decide alarm 2 value with ◁ & ▲ & ▼ key (If AL2-S = V/A/W, Range = 0-99999,If AL2-S = WH, Range = 0-9999999999)
		`00000`	2.Press Ⓝ key enter data and into AL3 setting page
8-3	AL3 (Alarm 3) Default = 0	`AL 3`	1.Decide alarm 3 value with ◁ & ▲ & ▼ key (If AL3-S = V/A/W, Range = 0-99999,If AL3-S = WH, Range = 0-9999999999)
		`00000`	2.Press Ⓝ key enter data and into AL4 setting page
8-4	AL4 (Alarm 4) Default = 0	`AL 4`	1.Decide alarm 4 value with ◁ & ▲ & ▼ key (If AL4-S = V/A/W, Range = 0-99999,If AL4-S = WH, Range = 0-9999999999)
		`00000`	2.Press Ⓝ key enter data and return normal display

Step	Parameter Mark Description	Parameter Mark	Operation Manual
9	Normal display	`12345`	1.Press ▲/D-ADJ key about 3 sec,into V.ZERO adjustment page
9-1	V.ZERO (Voltage Display Zero Adjust)	`u.PEro`	1.Adjust Voltage Display Zero with ▲ & ▼ key
		`00000`	2.Press Ⓝ key enter data and into V. SPAN adjustment page
9-2	V. SPAN (Voltage Display Span Adjust)	`u.SPAn`	1.Adjust Voltage Display Span with ▲ & ▼ key
		`99999`	2.Press Ⓝ key enter data and into I . ZERO adjustment page
9-3	I. ZERO (Current Display Zero Adjust)	`i.PEro`	1.Adjust Current Display Zero with ▲ & ▼ key
		`00000`	2.Press Ⓝ key enter data and into I . SPAN adjustment page
9-4	I. SPAN (Current Display Span Adjust)	`i.SPAn`	1.Adjust Current Display Span with ▲ & ▼ key
		`99999`	2.Press Ⓝ key enter data and return normal display

Step	Parameter Mark Description	Parameter Mark	Operation Manual
10	Normal display	12345	1.Press ▽/A-ADJ key about 3 sec, into AZERO adjustment page
10-1	AZERO(Analog Output Zero Adjust) Default = 0	APEro	1.Adjust analog output zero with ◁ & △ & ▽ key (±6000)
		00000	2.Press ⒩ key enter data and into ASPAN adjustment page
10-2	ASPAN(Analog Output Span Adjust) Default = 0	ASPAn	1.Adjust analog output span with ◁ & △ & ▽ key (±6000)
		00000	2.Press ⒩ key enter data and return normal display

Appendix	Error Mark Description	Error Mark	Analyze & Description
1	Input over error detect	ioFL	1.Input signal over range
2	Input below rerror detect	-ioFL	1.Input signal below range
3	Display over error detect	doFL	1.Display over range(99999)
4	EEPROM error detect	E-00	1.External interference when EEPROM read/write 2.EEPROM write over 1 million times(guarantee 10 years)
		no	Please power reset,if still display E-00, doing below step: a.E-00 & No alternate display for inquire reset EEPROM
		YES	b.Decide Yes with △ or ▽ key,press ⒩ key return normal display c.EEPROM was reset,Please follow step 1~10 set again

MM2D-DT Modbus RTU Mode Protocol Address Map

Data format 16Bit/32Bit,sign bit 8000~7FFF(-32768~32767),80000000~7FFFFFFF(-2147483648~2147483647)

Data format 64Bit,sign bit 8000000000000000~7FFFFFFFFFFFFFFF(-2^{63} ~ (2^{63}-1))

Address	Name	Description	Accept
0000	UNIT	Unit,Input Range 0000~0001(0~1)(0:W,1:KW)	R/W
0001	LOCK	Panel Lock,Input Range 0000~0001(0~1) (0:NO,1:YES)	R/W
0002	ACT1	Active 1,Input Range 0000~0001(0~1) (0:HI,1:LO)	R/W
0003	ACT2	Active 2,Input Range 0000~0001(0~1) (0:HI,1:LO),	R/W
0004	ACT3	Active 3,Input Range 0000~0001(0~1) (0:HI,1:LO)	R/W
0005	ACT4	Active 4,Input Range 0000~0001(0~1) (0:HI,1:LO)	R/W
0006	AL1_S	Alarm 1 Select,Input Range 0000~0003 (0~3) (0:V,1:A,2:W,3:WH)	R/W
0007	AL2_S	Alarm 2 Select,Input Range 0000~0003 (0~3) (0:V,1:A,2:W,3:WH)	R/W
0008	AL3_S	Alarm 3 Select,Input Range 0000~0003 (0~3) (0:V,1:A,2:W,3:WH)	R/W
0009	AL4_S	Alarm 4 Select,Input Range 0000~0003 (0~3) (0:V,1:A,2:W,3:WH)	R/W
000A	D10-T	10 Digit Display Time Mode,Input Range 0000~0002(0~2)(0:W,1:WH,2:W-WH)	R/W
000B	AO_SEL	Analog Output Select,Input Range 0000~0003 (0~3) (0:V,1:A,2:W,3:WH)	R/W
000C	BAUD	Communication Baud Rate,Input Range 0000~0003 (0~3)(0:19200,1:9600,2:4800,3:2400)	R/W
000D	PARI	Communication Parity Check,Input Range 0000~0003 (0~3)(0:N82,1:N81,2:EVEN,3:ODD)	R/W
000E	V.DP	Voltage Decimal Point,Input Range 0000~0004 (0~4)(0:10⁰,1:10¹,2:10²,3:10³,4:10⁴)	R/W
000F	A.DP	Current Decimal Point,Input Range 0000~0004 (0~4)(0:10⁰,1:10¹,2:10²,3:10³,4:10⁴)	R/W
0010	W.DP	Watt Decimal Point,Input Range 0000~0004 (0~4)(0:10⁰,1:10¹,2:10²,3:10³,4:10⁴)	R/W
0011	WH.DP	Watt-hour Decimal Point,Input Range 0000~0004 (0~4)(0:10⁰,1:10¹,2:10²,3:10³,4:10⁴)	R/W
0012	DRSP	Display update rate,Input Range 0000~0006 (0~6)(0:0.1,1:0.5,2:1.0,3:2.0,4:3.0,5:4.0,6:5.0)	R/W
0013	DF	Analog Output Digital Filter,Input Range 0001~0010 (1~16)	R/W
0014	CH-T	Auto Change Time, Input Range 0010~005A(10~90)	R/W
0015	SDT	Start Delay Time,Input Range 0000~0063 (0~99)	R/W
0016	SB	Start band,Input Range 0000~0063 (0~99)	R/W
0017	DEL1	Delay 1,Input Range FF9D~0063 (-99~99)	R/W
0018	DEL2	Delay 2,Input Range FF9D~0063 (-99~99)	R/W
0019	DEL3	Delay 3,Input Range FF9D~0063 (-99~99)	R/W
001A	DEL4	Delay 4,Input Range FF9D~0063 (-99~99)	R/W
001B	LCUT	Lcut,Input Range 0000~0063 (0~99)	R/W
001C	ADDR	Communication Address,Input Range 0000~00FF(0~255)	R/W
001D	HYS1	Hysteresis 1,Input Range 0000~03E7 (0~999)	R/W
001E	HYS2	Hysteresis 2,Input Range 0000~03E7 (0~999)	R/W
001F	HYS3	Hysteresis 3,Input Range 0000~03E7 (0~999)	R/W
0020	HYS4	Hysteresis 4,Input Range 0000~03E7 (0~999)	R/W
0021	AZERO	Analog Output Zero Adjust,Input Range E890~1770(-6000~6000)	R/W
0022	ASPAN	Analog Output Span Adjust,Input Range E890~1770(-6000~6000)	R/W
0023	CODE	Pass Code Setting,Input Range 00000000~0001869F(0~99999)high word	R/W
0024		Pass Code Setting,Input Range 00000000~0001869F(0~99999)low word	R/W
0025	V.DSPL	Voltage Display Lo Scale,Input Range 00000000~0001869F (0~99999)high word	R/W
0026		Voltage Display Lo Scale,Input Range 00000000~0001869F (0~99999)low word	R/W
0027	A.DSPL	Current Display Lo Scale,Input Range 00000000~0001869F (0~99999)high word	R/W
0028		Current Display Lo Scale,Input Range 00000000~0001869F (0~99999)low word	R/W
0029	V.DSPH	Voltage Display Hi Scale,Input Range 00000000~0001869F (0~99999)high word	R/W
002A		Voltage Display Hi Scale,Input Range 00000000~0001869F (0~99999)low word	R/W
002B	A.DSPH	Current Display Hi Scale,Input Range 00000000~0001869F (0~99999)high word	R/W
002C		Current Display Hi Scale,Input Range 00000000~0001869F (0~99999)low word	R/W
002D	AL1	Alarm 1,Input Range V/A/W= 00000000~0001869F(0~99999),WH=0~000000002540BE3FF(0~9999999999)high word	R/W

002E		Alarm 1,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
002F		Alarm 1,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
0030		Alarm 1,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)low word	R/W
0031	AL2	Alarm 2,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)high word	R/W
0032		Alarm 2,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
0033		Alarm 2,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
0034		Alarm 2,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)low word	R/W
0035	AL3	Alarm 3,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)high word	R/W
0036		Alarm 3,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
0037		Alarm 3,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
0038		Alarm 3,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)low word	R/W
0039	AL4	Alarm 4,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)high word	R/W
003A		Alarm 4,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
003B		Alarm 4,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)	R/W
003C		Alarm 4,Input Range V/A/W= 00000000-0001869F(0-99999),WH=0-0000002540BE3FF(0-999999999)low word	R/W
003D	ANLO	ANLO,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)high word	R/W
003E		ANLO,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)	R/W
003F		ANLO,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)	R/W
0040		ANLO,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)low word	R/W
0041	ANHI	ANHI,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)high word	R/W
0042		ANHI,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)	R/W
0043		ANHI,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)	R/W
0044		ANHI,Input Range V/A/W=00000000-0001869F(0-99999),WH=0-0000002540BE3FF (0-999999999)low word	R/W
0045	RESET	WH/KWH Value Reset,Input Range 0000-0001(0-1) (0:OFF,1:ON)	R/W
0046	STATUS	Alarm&Display Status,Display range 0000-FFFF(0-65535) Bit0:AL1, Bit1:AL2, Bit2:AL3, Bit3:AL4, Bit4:v dofl, Bit6:v iofl,Bit7:v -iofl, Bit8:a dofl, Bit10:a iofl, Bit11:a -iofl, Bit12:w dofl, Bit14:wh dofl	R
0047	DISP_V	Voltage Display Value,Display Range 00000000-0001869F(0-99999) high word	R
0048		Voltage Display Value,Display Range 00000000-0001869F(0-99999) low word	R
0049	DISP_A	Current Display Value,Display Range 00000000-0001869F(0-99999) high word	R
004A		Current Display Value,Display Range 00000000-0001869F(0-99999) low word	R
004B	DISP_W	Watt(Kilowatt) Display Value,Display Range 00000000-0001869F(0-99999) high word	R
004C		Watt(Kilowatt) Display Value,Display Range 00000000-0001869F(0-99999) low word	R
004D	DISP_WH	Watt(Kilowatt)-hour Display Value,Range 000000000000000-0000002540BE3FF(0-999999999)high word	R
004E		Watt(Kilowatt)-hour Display Value,Range 000000000000000-0000002540BE3FF(0-999999999)	R
004F		Watt(Kilowatt)-hour Display Value,Range 000000000000000-0000002540BE3FF(0-999999999)	R
0050		Watt(Kilowatt)-hour Display Value,Range 000000000000000-0000002540BE3FF(0-999999999) low word	R