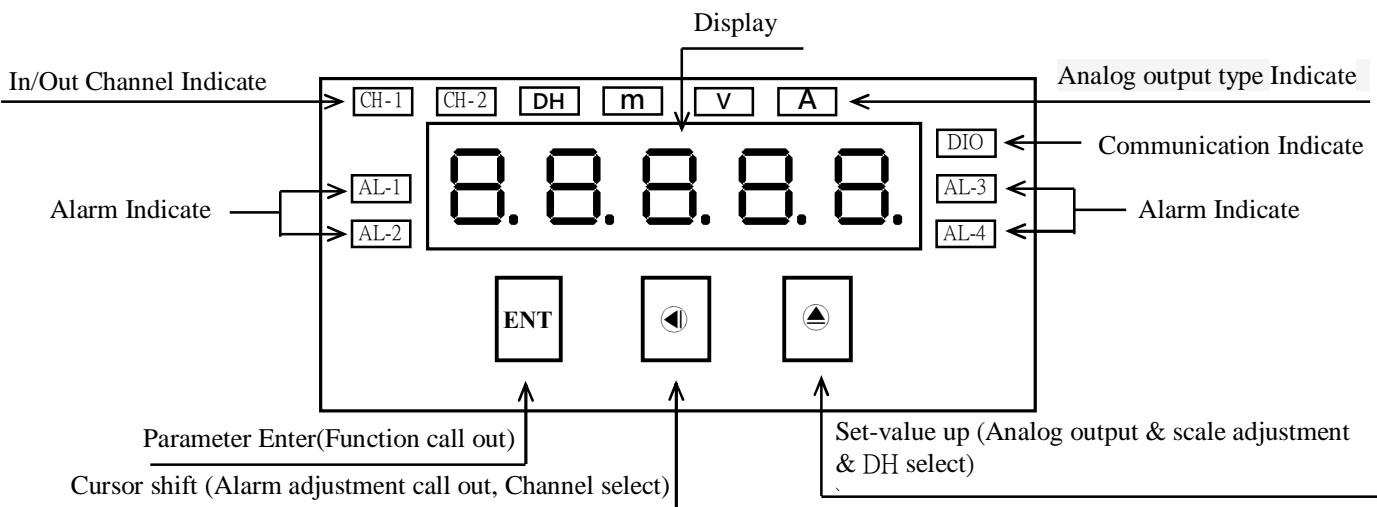


**Features**

- ⊙ Readout range : 0~99999(Frequency),-19999~99999(D-L Counter),  
-1999999999~999999999(D-H Counter)
- ⊙ Input range : 100KHz(Counter / Frequency)
- ⊙ Accuracy 0.03%F.S.(Frequency)
- ⊙ Counter input type : NPN/PNP/Line-Driver
- ⊙ Four counting modes :Two independent Up,Up/Down, direct-Up/Down and Quadrature-Up/Down can be modified (Counter)
- ⊙ Pulse input has low-filter function(10uS~50mS)
- ⊙ Can measure up to 2 pulse inputs
- ⊙ Input scaling multiplied 0.0001 to 9.9999 can be modified(Counter/Freq.)
- ⊙ Input pulse of revolution can be modified (1~99999)
- ⊙ Time Base can be modified(0.1~99.9 sec.)( Frequency)
- ⊙ Four alarm function
- ⊙ 16BIT DAC analog output can be modified,
- ⊙ MODBUS RTU MODE for RS485 Protocol
- ⊙ BAUD RATE:115200/57600/38400/19200/9600/4800 /2400/1200
- ⊙ 0.268ö highlight display
- ⊙ Man-machine interface,easy to operate
- ⊙ Modified inside parameter,must have pass code
- ⊙ Built-in watchdog function

**Name of Parts**



Note1:RPM = Counter pulse\*SCALE = Display value, LINE SCALE = detection shaft diameter (0.0001~9.9999M)

Note2:When the DH light is on, the high digit count value of the counter is displayed.( In normal display,Press the ▲ key to switch)

Note2:In normal display,Press the ◀ key to switch CH-1/CH-2 display

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 Can switch CH-1/CH-2 display, Press 3 seconds to 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 Can switch DH/DL display, Press 3 seconds to call out adjustment analog output AZERO&ASPAN 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 increment. (Key Response about 0.2 sec)
◀&▲ Key Function	In setting group or setting page press ▲&▼ key return normal display,but if in setting page the modify data will be lost
No Key in anything	In setting group or setting page no key in anything about 2 minutes,return normal display,but if in Setting page the modify data will be lost

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	1 2 3 4 5	Press ⊕ key into P.CODE setting page
2	P.CODE(Pass Code) Default = 0	P . C O D E	1.Key in 5 digit pass code with ◀ or ▲ key 2.Press ⊕ key,If the pass code is right into setting group , otherwise return normal display
		0 0 0 0 0	
3	SYS(System setting group)	S Y S	1.Select setting group with ◀ key 2. Press ⊕ key into setting page of selection setting group
	ROP(Alarm setting group)	r o p	

	AOP(Analog output setting group)	A O P	
	DOP(Communication setting group)	d o P	
4	SYS(System setting group)	S Y S	1.Press ◀ key decide SYS setting group , press Ⓜ key into TYPE page
4-1	TYPE(Type) Default = COUNT	T Y P E C O U N T	1.Decide type with ▲ key(Count:Counter/Freq: Frequency) 2.Press Ⓜ key enter data and into P-I-T setting page
4-2	P-I-T(Pulse Input Type) Default = NPN	P - , - T N P N	1.Decide Pulse Input Type with ▲ key (NPN/PNP/L-D(Line-Driver)) 2. Press Ⓜ key enter data and into P-LPF setting page
4-3	P-LPF(Pulse low pass filter) Default = 10.000mS	P - L P F 1 0 . 0 0 0	1.Decide Pulse low pass filter with◀&▲key (0.010~50.000mS) 2. Press Ⓜ key enter data and into DP setting page Note: Frequencies greater than 1/P-LPF will be filtered out
4-4	DP(Decimal Point) Default = 0	D P 0	1.Decide Decimal Point with ▲ key (0~4) 2.TYPE=Count, Press Ⓜ key enter data and into step 4-5 MODE page TYPE=Freq, Press Ⓜ key enter data and into step 4-9 D.TYPE page
4-5	MODE(Count Mode) Default = 1U2D	M O D E 1 U 2 D	1.Decide Count Mode with ▲ key (2U/1U2D/1P2D/1A2B) 2. Press Ⓜ key enter data and into C1.SPV setting page Note: 2U: 2 independent up count values
4-6	C1.SPV(Counter1 Set The Preset Value) Default = 0	C 1 S P V 0 0 0 0 0	1.Decide C1.SPV with◀&▲key (-199999999~999999999) 2. Press Ⓜ key enter data and into C2.SPV setting page Note: DH light ON shows the high bit setting value of the counter
4-7	C2.SPV(Counter2 Set The Preset Value) Default = 0	C 2 S P V 0 0 0 0 0	1. Decide C2.SPV with◀&▲key (-199999999~999999999) 2. Press Ⓜ key enter data and into RST setting page Note: DH light ON shows the high bit setting value of the counter
4-8	RST(Reset) Default = NO	R S T N O	1.Decide Count value Reset with ▲ key. (NO/YES) 2.Press Ⓜ key enter data and into step 4-15 CODE setting page When C1/C2.SPV=0, the count value returns to zero. When C1/C2.SPV=XXXXX, the count value is XXXXX
4-9	D.TYPE(Display Type) Default = RPM	D . T Y P E R P M	1.Decide Display Type with ▲ key (HZ/KHZ/RPM/LINE) 2.D.TYPE=HZ/KHZ,Press Ⓜ key enter data and into step 4-13 TBASE page D.TYPE=RPM,Press Ⓜ key enter data and into step 4-11 PPR-1 page D.TYPE=LINE, Press Ⓜ key enter data and into step 4-10 UNIT page
4-10	UNIT(Unit) Default = METER	U N I T M E T E R	1.Decide Unit with ▲ key (METER/FOOT/YARD) 2.Press Ⓜ key enter data and into PPR-1 setting page
4-11	PPR-1(Pulse 1 Per Revolution) Default = 1	P P R - 1 0 0 0 0 1	1.Decide Pulse 1 Per Revolution with◀&▲key (1~99999) 2. Press Ⓜ key enter data and into PPR-2 setting page
4-12	PPR-2(Pulse 2 Per Revolution) Default = 1	P P R - 2 0 0 0 0 1	1.Decide Pulse 2 Per Revolution with◀&▲key (1~99999) 2. Press Ⓜ key enter data and into TBASE setting page
4-13	TBASE (Time Base) Default = 0.1	T B A S E 0 0 0 0 . 1	1.Decide Time Base with◀&▲key (0.1~99.9 sec.) 2. Press Ⓜ key enter data and into AVG setting page
4-14	AVG (Average) Default = 1	A V G 0 0 0 0 1	1.Decide Average with◀&▲key(1~99) 2.Press Ⓜ key enter data and into CODE setting page
4-15	CODE(Code) Default = 0	C O D E 0 0 0 0 0	1.Decide Code with◀&▲key (0~99999) 2.Press Ⓜ key enter data and into LOCK setting page
4-16	LOCK(Panel Lock) Default = NO	L O C K N O	1.Decide Panel Lock with ▲ key (NO/YES) 2.Press Ⓜ key enter data and return SYS setting group
5	ROP(Alarm setting group)	R O P	1.Press ◀ key decide ROP setting group , press Ⓜ key into AL-S page
5-1	AL-S(Alarm Select) Default = 1.1.1.1.	A L - S 1 . 1 . 1 . 1	1.Decide Alarm Select with◀&▲key(ALx=4,3,2,1=1.1.1.1.~2.2.2.2.) 2.Press Ⓜ key enter data and into ACT setting page Note:2-channel input(COUNT MODE=2U or TYPE=Freq)
5-2	ACT(Active ) Default = 1.1.1.1.	A C T	1.Decide Active with◀&▲key(ALx=4,3,2,1=0.0.0.0.~1.1.1.1.) 2.Press Ⓜ key enter data and into HYS-1 setting page

		1 1 1 1	Note: "0" represents alarm Lo action, "1" represents alarm Hi action Example: "1100" means alarm 4/3 is Hi action, alarm 2/1 is Lo action
5-3	HYS-1(Hysteresis 1) Default = 0	HYS - 1 00000	1.Decide Hysteresis 1 with ◀ & ▲ key (0~999) 2.Press Ⓜ key enter data and into HYS-2 setting page
5-4	HYS-2(Hysteresis 2) Default = 0	HYS - 2 00000	1.Decide Hysteresis 2 with ◀ & ▲ key (0~999) 2.Press Ⓜ key enter data and into HYS-3 setting page
5-5	HYS-3(Hysteresis 3) Default = 0	HYS - 3 00000	1.Decide Hysteresis 3 with ◀ & ▲ key (0~999) 2.Press Ⓜ key enter data and into HYS-4 setting page
5-6	HYS-4(Hysteresis 4) Default = 0	HYS - 4 00000	1.Decide Hysteresis 4 with ◀ & ▲ key (0~999) 2.Press Ⓜ key enter data and into DEL-1 setting page
5-7	DEL-1(Delay 1) Default = 0	DEL - 1 00000	1.Decide Delay 1 with ◀ & ▲ key (-99~99 sec.) 2.Press Ⓜ key enter data and into DEL-2 setting page
5-8	DEL-2(Delay 2) Default = 0	DEL - 2 00000	1.Decide Delay 2 with ◀ & ▲ key (-99~99 sec.) 2.Press Ⓜ key enter data and into DEL-3 setting page
5-9	DEL-3(Delay 3) Default = 0	DEL - 3 00000	1.Decide Delay 3 with ◀ & ▲ key (-99~99 sec.) 2.Press Ⓜ key enter data and into DEL-4 setting page
5-10	DEL-4(Delay 4) Default = 0	DEL - 4 00000	1.Decide Delay 4 with ◀ & ▲ key (-99~99 sec.) 2.Press Ⓜ key enter data and return ROP setting group
<b>6 AOP(Analog output setting group)</b>			
6	AOP(Analog output setting group)	A O P	Press ◀ key decide AOP setting group , press Ⓜ key into AO.SEL page
6-1	AO.SEL(Analog Output Object Select) Default = CH-1	A O S E L C H - 1	1.Decide Analog Output Object Select with ▲ key (CH-1/CH-2) 2. Press Ⓜ key enter data and into AN.SEL setting page
6-2	AN.SEL(Analog output select) Default = 4-20mA	A N S E L 4 - 2 0	1.Decide Analog output select with ▲ key (4-20mA/0-20mA/0-5V/0-10V/ 4-20mA Two-wire(t.4-20)) 2. Press Ⓜ key enter data and into ANLO setting page
6-3	ANLO(Analog Output Zero-According to Display) Default = 0	A N L O 0 0 0 0 0	1.Decide Analog Output Zero-According to Display with ◀ & ▲ key (Frequency :-19999~99999 or Counter :-199999999~999999999) 2.Press Ⓜ key enter data and into ANHI setting page
6-4	ANHI(Analog Output Span-According to Display ) Default = 10000	A N H I 1 0 0 0 0	1.Decide Analog Output Span-According to Display with ◀ & ▲ key (Frequency :-19999~99999 or Counter :-199999999~999999999) 2. Press Ⓜ key enter data and return AOP setting group
<b>7 DOP(Communication setting group)</b>			
7	DOP(Communication setting group)	D O P	Press ◀ key decide DOP setting group , press Ⓜ key into ADDR page
7-1	ADDR(Communication Address) Default = 0	A D D R 0 0 0 0 0	1.Decide Communication Address with ◀ & ▲ key (0~255) 2.Press Ⓜ key enter data and into BAUD setting page
7-2	BAUD(Communication Baud Rate) Default = 19200	B A U D 1 9 2 0 0	1.Decide Communication Baud Rate with ▲ key (115.2K/57600/38400 /19200/9600/4800/2400/1200) 2. Press Ⓜ key enter data and into PARI setting page
7-3	PARI(Communication Parity Check) Default = n.8.2.	P A R I n . 8 . 2	1.Decide Communication Parity Check with ▲ key (n.8.2/n.8.1/even/odd) 2. Press Ⓜ key enter data and into MRDT setting page
7-4	MRDT(Modbus response delay time) Default = 10	M R D T 1 0	1.Decide Modbus response delay time with ◀ & ▲ key (0~30 mS) 2.Press Ⓜ key enter data and into H-WD setting page
7-5	H-WD(Host watchdog function) Default = 0	H - W D 0	1.Decide Host watchdog function with ▲ key (0 : Disable watchdog, 1 : Enable watchdog) 2. H-WD=0, Press Ⓜ key enter data and return DOP setting group H-WD=1, Press Ⓜ key enter data and into H.W.T.O.V setting page
7-6	H.W.T.O.V(Host watchdog timeout value) Default = 10.0 sec.	H . W . T . O . V 1 0 . 0	1.Decide Host watchdog timeout value with ◀ & ▲ key (0.1~25.5 Sec.) 2.Press Ⓜ key enter data and into SV-AL setting page Note: When the host watchdog timeout value exceeds the set value, Then execute "A/O minimum output value" & "SV-AL" function

7-7	SV-AL(Defination of safety value relay action after Modbus communication fails) Default = 0.0.0.0.	SV-AL	1.Decide Defination of safety value relay action after Modbus communication fails with ◀ & ▶ key(ALx =4,3,2,1=0.0.0.0.~1.1.1.1.) 2.Press Ⓜ key enter data and return DOP setting group Note: 0 = OFF; 1 = ON
		0.0.0.0	

**External parameter operation process**

Step	Parameter Mark Description	Parameter Mark	Operation Manual
8	Normal display	12345	Press ◀ key about 3 sec,into AL1 setting page
8-1	AL-1 (Alarm 1) Default = 0	AL-1	1.Decide Alarm 1 with ◀ & ▶ key (Frequency :-19999~99999 or Counter :-1999999999~9999999999) 2. Press Ⓜ key enter data and into AL-2 setting page
		00000	
8-2	AL-2 (Alarm 2) Default = 0	AL-2	1.Decide Alarm 2 with ◀ & ▶ key (Frequency :-19999~99999 or Counter :-1999999999~9999999999) 2. Press Ⓜ key enter data and into AL-3 setting page
		00000	
8-3	AL-3 (Alarm 3) Default = 0	AL-3	1.Decide Alarm 3 with ◀ & ▶ key (Frequency :-19999~99999 or Counter :-1999999999~9999999999) 2. Press Ⓜ key enter data and into AL-4 setting page
		00000	
8-4	AL-4 (Alarm 4) Default = 0	AL-4	1.Decide Alarm 4 with ◀ & ▶ key (Frequency :-19999~99999 or Counter :-1999999999~9999999999) 2. Press Ⓜ key enter data and return normal display
		00000	

Step	Parameter Mark Description	Parameter Mark	Operation Manual
9	Normal display	12345	Press ▲ key about 3 sec,into AZERO setting page
9-1	AZERO(Analog Output Zero Adjust) Default = 0	APER0	1.Adjustment analog output zero with ◀ or ▶ key (±2999) 2. Press Ⓜ key enter data and into ASPAN setting page
		00000	
9-2	ASPAN(Analog Output Span Adjust) Default = 0	ASPARn	1.Adjustment analog output Span with ◀ or ▶ key (±2999) 2.Press Ⓜ key enter data and into SCL-1 setting page
		00000	
9-3	SCL-1(Scale 1) Default = 1.0000	SCL-1	1.Decide Scale 1 with ◀ & ▶ key (0.0001~9.9999) 2. Press Ⓜ key enter data and into SCL-2 setting page Note:RPM/COUNT/Frequency:(Scale=0.0001~9.9999) Line-speed:(Rotation diameter=0.0001~9.9999M)
		1.0000	
9-4	SCL-2(Scale 2) Default = 1.0000	SCL-2	1.Decide Scale 2 with ◀ & ▶ key (0.0001~9.9999) 2. Press Ⓜ key enter data and return normal display Note:RPM/COUNT/Frequency:(Scale=0.0001~9.9999) Line-speed:(Rotation diameter=0.0001~9.9999M)
		1.0000	

Appendix	Error Mark Description	Error Mark	Analyze & Description
1	Display over error detect	d o F L	Display over range (Frequency :99999 / Counter :9999999999)
2	Display under error detect	- d o F L	Display under range (Counter :-1999999999)
3	EEPROM error detect	E-00	1. External interference when EEPROM read/write 2.EEPROM write over 1 million times(guarantee 10 years) Please power reset, if still display E-00,doing following step: a.E-00 & No alternate display for inquire reset EEPROM b.Decide Yes with ▲ key,press Ⓜ key return normal display c.EEPROM was reset,Please follow step 1~9 set again
		n o	
		YES	

■ HMPI Modbus RTU Mode Protocol Address Map

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

Data format 64Bit unsign bit 8000000000000000~7FFFFFFFFFFFFFFF(0 ~ (2<sup>64</sup> -1))

Address	Name	Description	Accept
0000	TYPE	TYPE,Input Range 0000~0001(0~1),0: COUNT,1= Freq	R/W
0001	P-I-T	Pulse Input Type,Input Range 0000~0002(0~2),0: NPN,1: PNP,2: L-D(Line-Driver)	R/W
0002	DP	Decimal Point,Input Range 0000~0004 (0~4),(0:10 <sup>0</sup> ,1:10 <sup>-1</sup> ,2:10 <sup>-2</sup> ,3:10 <sup>-3</sup> ,4:10 <sup>-4</sup> )	R/W
0003	MODE	Count Mode,Input Range 0000~0003(0~3),(0:2U,1:1U2D,2:1P2D,3:1A2B)	R/W
0004	RST	Reset,Input Range 0000~0001(0~1),(0:NO,1:YES)	R/W
0005	D.TYPE	Display Type,Input Range 0000~0003(0~3),(0:HZ,1:KHZ,2:RPM,3:LINE)	R/W
0006	UNIT	Unit,Input Range 0000~0002(0~2),(0:METER,1:FOOT,2:YARD)	R/W
0007	TBASE	Time Base,Input Range 0001~03E7(1~999)	R/W
0008	AVG	Average,Input Range 0001~0063(1~99)	R/W
0009	LOCK	Panel Lock,Input Range 0000~0001(0~1)(0:NO,1:YES)	R/W
000A	AL-S	Alarm Select,Input Range 0000~000F(0~15) (0=CH-1,1=CH-2)(Bit0:AL1,Bit1:AL2,Bit2:AL3,Bit3:AL4)	R/W
000B	ACT	Active,Input Range 0000~000F(0~15) (0:LO,1:HI)(Bit0:AL-1,Bit1:AL-2,Bit2:AL-3,Bit3:AL-4)	R/W
000C	HYS-1	Hysteresis 1,Input Range 0000~03E7(0~999)	R/W
000D	HYS-2	Hysteresis 2,Input Range 0000~03E7(0~999)	R/W
000E	HYS-3	Hysteresis 3,Input Range 0000~03E7(0~999)	R/W
000F	HYS-4	Hysteresis 4,Input Range 0000~03E7(0~999)	R/W
0010	DEL-1	Delay 1,Input Range FF9D~0063(-99~99)	R/W
0011	DEL-2	Delay 2,Input Range FF9D~0063(-99~99)	R/W
0012	DEL-3	Delay 3,Input Range FF9D~0063(-99~99)	R/W
0013	DEL-4	Delay 4,Input Range FF9D~0063(-99~99)	R/W
0014	ADDR	Communication Address,Input Range 0000~00FF(0~255)	R/W
0015	BAUD	Communication Baud Rate,Input Range 0000~0007(0~7):0:115200,1:57600,2:38400,3:19200,4:9600,5:4800,6:2400,7:1200	R/W
0016	PARI	Communication Parity Check,Input Range 0000~0003(0~3)0:N.8.2.,1:N.8.1.,2:EVEN,3:ODD	R/W
0017	MRDT	Modbus response delay time,Input Range 0000~001E(0~30)	R/W
0018	H-WD	Host watchdog function,Input Range 0000~0001(0~1),(0: watchdog disable,1: watchdog enable) <sup>(1)(2)</sup>	R/W
0019	H.W.T.O.V	Host watchdog timeout value (Unit 0.1 sec.),Input Range 0001~00FF(1~255) <sup>(1)(2)</sup>	R/W
001A	SV-AL	Definition of safety value relay action after Modbus communication fails,Input Range 0000~000F(0~15) (0=off;1=on)(Bit0:AL-1,Bit1:AL-2,Bit2:AL-3,Bit3:AL-4)	R/W
001B	AO.SEL	Analog Output Object Select,Input Range 0000~0001(0~1),(0=CH-1,1=CH-2)	R/W
001C	AN.SEL	Analog output select,Input Range 0000~0004(0~4),0:4-20mA,1:0-20mA,2:0-5V,3:0-10V,4:4-20mA Two-wire	R/W
001D	AZ_I0	Analog minimum output current (0mA) adjustment,Input Range F449~0BB7 (-2999~2999)	R/W
001E	AZ_I4	Analog minimum output current (4mA) adjustment,Input Range F449~0BB7 (-2999~2999)	R/W
001F	AZ_I4_2W	Analog minimum output current (4mA) adjustment(Two-wire),Input Range F449~0BB7 (-2999~2999)	R/W
0020	AZ_V0	Analog minimum output voltage (0V) adjustment,Input Range F449~0BB7 (-2999~2999)	R/W
0021	AS_I20	Analog maximum output current (20mA) adjustment,Input Range F449~0BB7 (-2999~2999)	R/W
0022	AS_I20_2W	Analog maximum output current (20mA) adjustment(Two-wire),Input Range F449~0BB7 (-2999~2999)	R/W
0023	AS_V5	Analog maximum output voltage (5V) adjustment,Input Range F449~0BB7 (-2999~2999)	R/W
0024	AS_V10	Analog maximum output voltage (10V) adjustment,Input Range F449~0BB7 (-2999~2999)	R/W
0025	CODE	Code,Input Range 00000000~0001869F(0~99999) high word	R/W
0026		Code,Input Range 00000000~0001869F(0~99999) low word	R/W
0027	P-LPF	Pulse low pass filter,Input Range 0000000A~0000C350(10~50000) high word	R/W
0028		Pulse low pass filter,Input Range 0000000A~0000C350(10~50000) low word	R/W
0029	SCL-1	Scale 1,Input Range 00000001~0001869F(1~99999) high word	R/W
002A		Scale 1,Input Range 00000001~0001869F(1~99999) low word	R/W
002B	SCL-2	Scale 2,Input Range 00000001~0001869F(1~99999) high word	R/W
002C		Scale 2,Input Range 00000001~0001869F(1~99999) low word	R/W
002D	PPR-1	Pulse 1 Per Revolution,Input Range 00000001~0001869F(1~99999) high word	R/W
002E		Pulse 1 Per Revolution,Input Range 00000001~0001869F(1~99999) low word	R/W
002F	PPR-2	Pulse 2 Per Revolution,Input Range 00000001~0001869F(1~99999) high word	R/W

0030		Pulse 2 Per Revolution,Input Range 00000001~0001869F(1~99999) low word	R/W
0031	C1.SPV	Counter1 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)high word	R/W
0032		Counter1 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0033		Counter1 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0034		Counter1 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
0035	C2.SPV	Counter2 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R/W
0036		Counter2 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0037		Counter2 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0038		Counter2 set the preset value,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
0039	ANLO	ANLO,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)high word	R/W
003A		ANLO,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
003B		ANLO,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
003C		ANLO,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
003D	ANHI	ANHI,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R/W
003E		ANHI,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
003F		ANHI,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0040		ANHI,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
0041	AL-1	Alarm 1,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R/W
0042		Alarm 1,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0043		Alarm 1,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0044		Alarm 1,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
0045	AL-2	Alarm 2,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R/W
0046		Alarm 2,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0047		Alarm 2,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0048		Alarm 2,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
0049	AL-3	Alarm 3,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R/W
004A		Alarm 3,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
004B		Alarm 3,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
004C		Alarm 3,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
004D	AL-4	Alarm 4,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R/W
004E		Alarm 4,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
004F		Alarm 4,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R/W
0050		Alarm 4,Input Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R/W
0051	DISP1	CH-1 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R
0052		CH-1 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R
0053		CH-1 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R
0054		CH-1 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R
0055	DISP2	CH-2 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) high word	R
0056		CH-2 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R
0057		CH-2 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999)	R
0058		CH-2 Display value,Display Range FFFFFFFF88CA6C01~00000002540BE3FF(-1999999999~9999999999) low word	R
0059	HWT_TO_S	Host watchdog timeout status, write 0 to clear,Input Range 0000(0),Display Range 0000~0001(0~1) <sup>(1)(2)</sup>	R/W
005A	HWT_TO_C	Host watchdog timeout count value (unit:0.1 Sec.), write 0 to clear,Input Range 0000~FFFF(0~65535) <sup>(1)(2)</sup>	R/W
005B	RESET_S	Reset status,Display Range 0000~0001(0~1) <sup>(3)</sup>	R
005C	STATUS	Alarm status,Display Range 0000~0007(0~7)(0:OFF,1:ON)(Bit0:AL-1,Bit1:AL-2,Bit2:AL-3,Bit3:AL-4 Bit4: CH1 DOFL,Bit5: CH1 -DOFL,Bit6:CH2 DOFL,Bit7:CH2 -DOFL)	R

Note 1:If the H-WD function is enabled,need to issue a command to clear the HWT\_TO\_C value (not stored in EEPROM) within the H.W.T.O.V setting time, otherwise HWT\_TO\_S will time out. The relay enters the safety output, the analog output is the minimum value, and the normal display page flashes until HWT\_TO\_S is cleared

Note 2:The HWT\_TO\_S value will be stored in EEPROM. If HWT\_TO\_S times out, a command to write a value of 0 is required to clear it or it will be automatically cleared when the H-WD function is turned off

Note 3:RESET\_S is read as 1 for the first time when the power is turned on, and 0 thereafter