

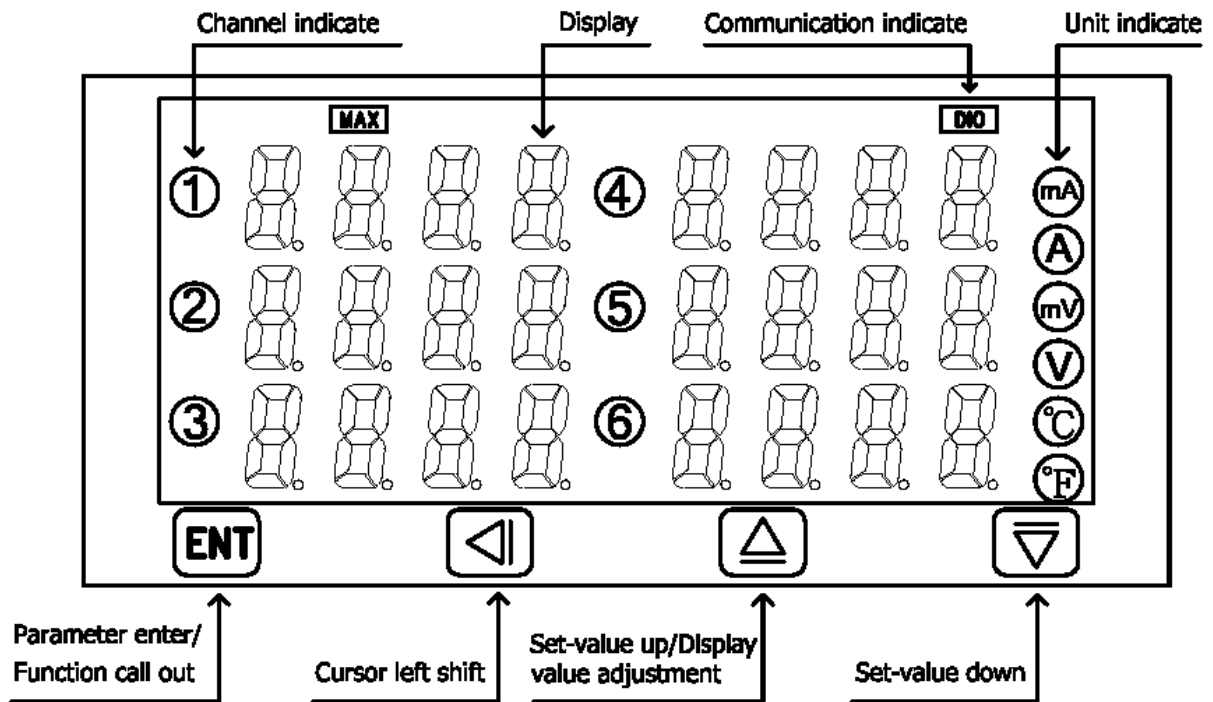
AXE MICROPROCESS 6 CHANNEL ANALOG INPUT PANEL METER

MM8A-C

FEATURES

Accuracy 0.1% FS ± 1 digit	RS485 communication interface, Protocol MODBUS RTU MODE
Measuring 6 channel Pt-100	BAUD RATE: 38400/19200/9600/4800/2400
Input channel number (1-6) can be modified	Man-machine interface, easy to operate
Unit / can be modified	Flash/EE saving data safekeeping about 10 years
One digit decimal point can be modified	Modified inside parameter must have pass code

Name of Parts



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. 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, The key function is call out adjustment display value (DZERO & DSPAN) 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	1. 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 decrement. (Key response about 0.2 sec.)
▲&▼ key function	1. 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	1. In setting group or setting page no key in anything about 2 minutes, return normal display

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	1 2 3 4	1. Press Ⓜ key into P.COD setting page

2	P.COD (Pass Code Input Page) Default=0	P.C o d	1.Key in 4 digit pass code with ◀&▲&▼ key 2.Press Ⓜ key,the pass code is correct into setting group , otherwise,return normal display
		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
	DOP (Communication Setting)	d o P	
4	SYS (System Setting Group)	S Y S	1.Press ◀ key decide SYS setting group 2.press Ⓜ key into CH-S setting page
4-1	CH-S (Input Channel Number Select) Default = 6	C H - S	1.Decide input channel number with ▲&▼ key(1 to 6) 2.Press Ⓜ key enter data and into DP setting page
		0 0 0 6	
4-2	DP (Decimal Point) Default = 1	d P	1.Decide Decimal Point with ▲&▼ key(0 to 1) 2.Press Ⓜ key enter data and into UNIT setting page
		0 0 0 1	
4-3	UNIT (Temperature Unit) Default =	U n i t	1.Decide Temperature Unit with ▲&▼ key (/) 2.Press Ⓜ key enter data and into LCUT setting page
		o c	
4-4	LCUT (Low Cut) Default = 0	L C U T	1.Decide low cut with ◀&▲&▼ key(0-99) 2.Press Ⓜ key enter data and into CODE setting page
		0 0 0 0	
4-5	CODE (Pass Code) Default = 0	C o d e	1.Decide pass code with ◀&▲&▼ key(0-9999) 2.Press Ⓜ key enter data and into LOCK setting page
		0 0 0 0	
4-6	LOCK (Parameter Lock) Default = NO	L o c k	1.Decide parameter lock with ▲&▼ key(NO or YES) 2.Press Ⓜ key enter data and return SYS setting group
		n o	
4-7	SYS (System Setting Group)	S Y S	1.Select setting group with ◀ key 2.Press Ⓜ key into setting page of selection group
5	DOP (Communication setting group)	d o P	1.Press ◀ key decide DOP setting group 2.Press Ⓜ key into ADDR setting page
5-1	ADDR (Communication Address setting page) Default =0	A d d r	1.Decide Communication address with ◀&▲&▼ key(0-255) 2.Press Ⓜ key enter data and into BAUD setting page
		0 0 0 0	
5-2	BAUD (Communication Baud Rate setting page) Default = 19K2	b A U D	1.Decide baud rate with ▲&▼ key(38K4/19K2/9600/4800/2400) 2.Press Ⓜ key enter data and into PARI setting page
		1 9 2 2	
5-3	PARI(Communication Parity Check setting page) Default = n.8.2.	P A R I	1.Decide parity check with ▲&▼ key(n82,n81,even,odd) 2.Press Ⓜ key enter data and return DOP setting group
		n.8.2.	
5-4	DOP (Communication setting group)	d o P	1.Select setting group with ◀ key 2.Press Ⓜ key into setting page of selection group
Step	Parameter Mark Description	Parameter Mark	Operation Manual
6	Normal display	1 2 3 4	Press ▲ key about 3 sec,into DZ-1 setting page
6-1	DZ-1 (Display Zero Adjust -Channel 1)	d Z - 1	1.Adjustment channel 1 display zero with ▲&▼key 2.Press Ⓜkey enter data and into DS-1 setting page Note:Adjust DZ-1 value while minimum display value error
		0 0 . 0 0	
6-2	DS-1 (Display Span Adjust -Channel 1)	d S - 1	1.Adjustment channel 1 display span with ▲&▼key 2.Press Ⓜkey enter data and into DZ-2 setting page Note:Adjust DS-1 value while maximum display value error
		1 0 . 0 0	
6-3	DZ-2 (Display Zero Adjust -Channel 2)	d Z - 2	1.Adjustment channel 2 display zero with ▲&▼key 2.Press Ⓜkey enter data and into DS-2 setting page Note:Adjust DZ-2 value while minimum display value error
		0 0 . 0 0	
6-4	DS-2 (Display Span Adjust -Channel 2)	d S - 2	1.Adjustment channel 2 display span with ▲&▼key 2.Press Ⓜkey enter data and into DZ-3 setting page Note:Adjust DS-2 value while maximum display value error
		1 0 . 0 0	

6-5	DZ-3 (Display Zero Adjust -Channel 3)	д 7 - 3	1.Adjustment channel 3 display zero with ▲&▼key 2.Press Ⓜkey enter data and into DS-3 setting page Note:Adjust DZ-3 value while minimum display value error
		00.00	
6-6	DS-3 (Display Span Adjust -Channel 3)	д 5 - 3	1.Adjustment channel 3 display span with ▲&▼key 2.Press Ⓜkey enter data and into DZ-4 setting page Note:Adjust DS-3 value while maximum display value error
		10.00	
6-7	DZ-4 (Display Zero Adjust -Channel 4)	д 7 - 4	1.Adjustment channel 4 display zero with ▲&▼key 2.Press Ⓜkey enter data and into DS-4 setting page Note:Adjust DZ-4 value while minimum display value error
		00.00	
6-8	DS-4 (Display Span Adjust -Channel 4)	д 5 - 4	1.Adjustment channel 4 display span with ▲&▼key 2.Press Ⓜkey enter data and into DZ-5 setting page Note:Adjust DS-4 value while maximum display value error
		10.00	
6-9	DZ-5 (Display Zero Adjust -Channel 5)	д 7 - 5	1.Adjustment channel 5 display zero with ▲&▼key 2.Press Ⓜkey enter data and into DS-5 setting page Note:Adjust DZ-5 value while minimum display value error
		00.00	
6-10	DS-5 (Display Span Adjust -Channel 5)	д 5 - 5	1.Adjustment channel 5 display span with ▲&▼key 2.Press Ⓜkey enter data and into DZ-6 setting page Note:Adjust DS-5 value while maximum display value error
		10.00	
6-11	DZ-6 (Display Zero Adjust -Channel 6)	д 7 - 6	1.Adjustment channel 6 display zero with ▲&▼key 2.Press Ⓜkey enter data and into DS-6 setting page Note:Adjust DZ-6 value while minimum display value error
		00.00	
6-12	DS-6 (Display Span Adjust -Channel 6)	д 5 - 6	1.Adjustment channel 6 display span with ▲&▼key 2.Press Ⓜkey enter data and return normal display Note:Adjust DS-6 value while maximum display value error
		10.00	

Appendix	Error Mark description	Error Mark	Analyze & Description
1	Temperature over range error detect	д o F L	1.Temperature over display range (9999) or over measurable range (850)
2	Display under range error detect	- д o F	1.Temperature under display range (-1999) or under measurable range (-200)
3	Sensor burnout error detect	o P E n	1.Pt-100 sensor burnout
4	EEPROM error detect	E - 00	1.External interference when EEPROM read/write 2.EEPROM write over 100,000 cycles(guarantee 10 years) Please power reset,if still display E-00,doing below step: 1.E-00 & No alternate display for inquire reset EEPROM 2. Decide Yes with ▲&▼ key,press Ⓜ key return normal display 3. EEPROM was reset,Please follow step 1-6 setting again
		n o	
		Y E S	

MM8A-C Modbus RTU Mode Protocol Address Map
Data format 16Bit, sign bit, 8000~7FFF(-32768~32767)

Address	Name	Description	Accept
0000	LOCK	Panel Lock, Input Range 0000~0001(0~1) 0:NO,1:YES	R/W
0001	CH_S	Input Channel Number Select, Input Range 0001~0006(1~6)	R/W
0002	DP	Decimal Point, Input Range 0000~0001(0~1) 0:10 ⁰ , 1:10 ⁻¹	R/W
0003	UNIT	Temperature Unit, Input Range 0000~0001(0~1) 0: , 1:	R/W
0004	ADDR	Communication Address, Input Range 0000~00FF(0~255)	R/W
0005	BAUD	Baud Rate, Input Range 0000~0004(0~4) 0:38K4, 1:19K2, 2:9600, 3:4800, 4:2400	R/W
0006	PARI	Parity Check, Input Range 0000~0003(0~3) 0:N.8.2, 1:N.8.1, 2:EVEN, 3:ODD	R/W
0007	LCUT	Low Cut, Input Range FF9D~0063(-99~99)	R/W
0008	CODE	Pass Code, Input Range 0000~270F(0~9999)	R/W
0015	DISPLAY1	Channel 1 Normal Display Value, Display Range F831~270F(-1999~9999)	R
0016	DISPLAY2	Channel 2 Normal Display Value, Display Range F831~270F(-1999~9999)	R
0017	DISPLAY3	Channel 3 Normal Display Value, Display Range F831~270F(-1999~9999)	R
0018	DISPLAY4	Channel 4 Normal Display Value, Display Range F831~270F(-1999~9999)	R
0019	DISPLAY5	Channel 5 Normal Display Value, Display Range F831~270F(-1999~9999)	R
001a	DISPLAY6	Channel 6 Normal Display Value, Display Range F831~270F(-1999~9999)	R