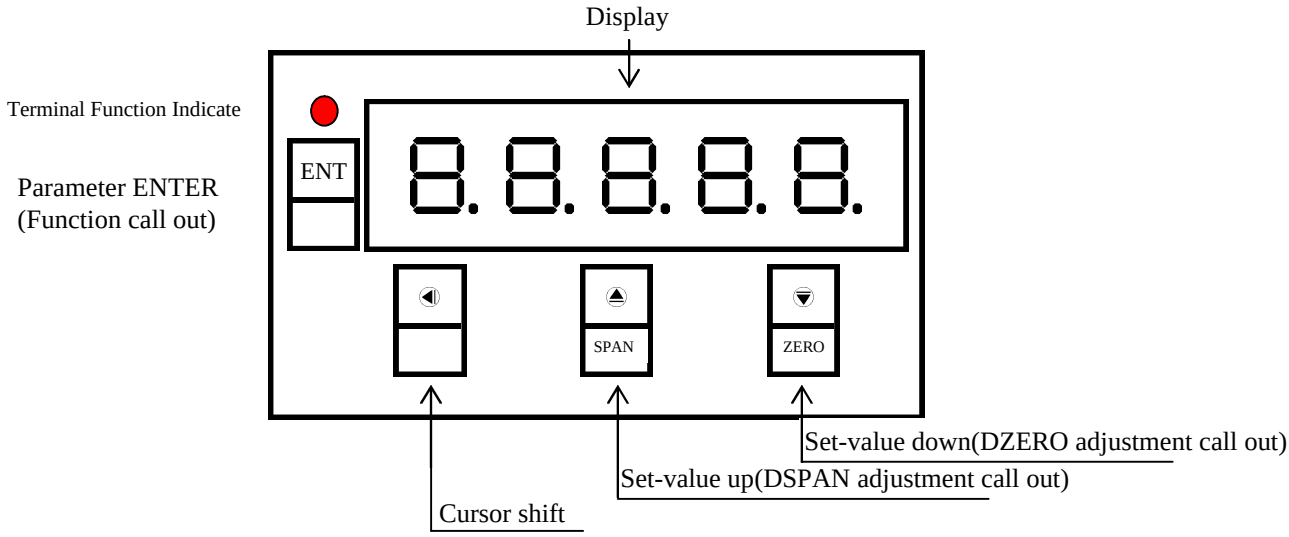
AXE MICROPROCESS PANNEL CONTROLLER METER

MMS Series

■ Features

◎Measuring DCA/DCV/ACA/ACV/Potentiometer/Pt-100/Transmitter/Load Cell/Resistor ...etc
◎Accuracy 0.1% F.S.±1digit
◎Display range -19999 to 99999 can be modified
◎Decimal point can be modified
◎Display average can be modified(1~99)
◎0.4" highlight display
◎EEPROM Saving ,data safekeeping about 10 years
◎Modified inside parameter must have pass code
◎Man-machine interface ,easy to operate

■ Name Of Parts



Key introduce	Operation Manual
㊎ Key function	1.In normal display,The key is call out setting page 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 DSPAN adjustment page 2.Into parameter setting page,the parameter mark&data is alternate display,If need modify data can press up key into setting procedure,The display is lock parameter data,this time must let off key about 0.2sec,press again,the parameter data will increment(Key response about 0.2sec)
▼ Key function	1.In normal display,The key function is call out DZERO adjustment page 2.Into parameter setting page,the parameter mark&data is alternate display,If need modify data can press down key into setting procedure,The display is lock parameter data,this time must let off key about 0.2sec,press again,the parameter data will decrement(Key response about 0.2sec)
▲&▼ Key function	In setting page press ▲&▼ key return normal display ,but the modify data will be lost
No key in anything	In setting page no key in anything about 2 minutes,return normal display,but the modify data will be lost

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	12345	Press ㊎ key into P.COD setting page
2	P.COD(Pass Code) Default=0	P.Cod 00000	1.Key in 5 digit pass code with ◀&▲&▼ key 2.Press ㊎ key,the pass code is right into DP setting page otherwise return normal display
3	DP1(Decimal Point 1) Default=0	dP 1 0	1.Decide decimal point 1 with ▲&▼ key(0~4) 2.Press ㊎ key enter data and into DSPL1 setting page
4	DSPL1(Display1 Low Scale) Default=0	dSPL 1 00000	1.Decide display low scale 1 with ◀&▲&▼ key(-19999~99999) 2.Press ㊎ key enter data and into DSPH1 setting page

5	DSPH1(Display1 High Scale) Default=99999	dSPH 1 99999	1.Decide display high scale 1 with ◀&▲&▼ key(-19999~99999) 2.Press ENT key enter data and into DP2 setting page
6	DP2(Decimal Point 2) Default=0	dP2 0	1.Decide decimal point 2 with ▲&▼ key(0~4) 2.Press ENT key enter data and into DSPL2 setting page
7	DSPL2(Display2 Low Scale) Default=0	dSPL2 00000	1.Decide display low scale 2 with ◀&▲&▼ key(-19999~99999) 2.Press ENT key enter data and into DSPH2 setting page
8	DSPH2(Display2 High Scale) Default=99999	dSPH2 99999	1.Decide display high scale 1 with ◀&▲&▼ key(-19999~99999) 2.Press ENT key enter data and into DP2 setting page
9	AVG (Average) Default=1	AvG 0001	1.Decide display average times with ◀&▲&▼ key(1~99) 2.Press ENT key enter data and into LCUT setting page
10	LCUT (Low Cut) Default=0	LCUt 00000	1.Decide display low cut with ◀&▲&▼ key(0~999) 2.Press ENT key enter data and into CODE setting page
11	CODE(Pass Code) Default=0	CodE 00000	1.Decide pass code with ◀&▲&▼ key(0~99999) 2.Press ENT key enter data and return DP1 setting page
Step	Parameter Mark Description	Parameter Mark	Operation Manual
12	Normal display	12345	Press ▼/ZERO key,into DZERO adjustment page
12-1	DZERO(Display Zero Adjust)Default=0	dZEro 00000	1.Input low signal,and adjustment display zero with ▲& ▼ key 2.Press ENT key enter data and return normal display
Step	Parameter Mark Description	Parameter Mark	Operation Manual
13	Normal display	12345	Press ▲/SPAN key,into DSPAN adjustment page
13-1	DSPAN(Display Span Adjust)Default=0	dSPAn 00000	1.Input high signal,and adjustment display zero with ▲& ▼ key 2.Press ENT key enter data and return normal display
Appendix	Error Mark Description	Error Mark	Analyze & Description
1	Input over error detect	ı oFL	Input signal over range(120%)
2	Input under error detect	-ı oFL	Input signal under range(-20%)
3	Display over error detect	doFL	Display over range(99999)
4	Display under error detect	-doFL	Display under range(-19999)
5	A/D Converter error detect	AdEr	1. Input signal over range (180%) 2. Inside circuit damage Please moving input signal if still display ADER,please contact us
6	EEPROM error detect	E-00 no YES	1.External interference when EEPROM read/write 2.EEPROM write over 100 million times(guarantee 10 years) Please power reset,if still display E-00,doing following step: 1. E-00 & No alternate display for inquire reset EEPROM 2. Decide Yes with ▲ or ▼ key,press ENT key return normal display 3.EEPROM was reset,Please follow step 1~10 set again

MMS Calibrate Step

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	12345	1.Press ENT&◀ key about 3sec.,into INLO setting page
2	INLO(Input low calibrate setting page)	InLo 12345	1.Input low signal and press ▲ key read calibrate value 2.Wait display stability ,press ENT key enter data and into INHI setting page
3	INHI(Input high calibrate setting page)	InHi 12345	1.Input high signal and press ▲ key read calibrate value 2.Wait display stability ,press ENT key enter data and into CON setting page
4	CON(Terminal Control) Default=non	Con non	1.Decide Terminal Control with ▲&▼ key(non,AZ,HD,MAX,2DSP) 2.Press ENT key enter data and into DP1 setting page
5	DP1(Decimal Point 1) Default=0	dP 1 0	3.Decide decimal point 1 with ▲&▼ key(0~4) 4.Press ENT key enter data and into DSPL1 setting page

Restore Default Calibrate Value:

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	12345	1.Press ENT&◀ key about 3sec.,into INLO setting page
2	INLO(Input low calibrate setting page)	InLo 12345	1.Press ◀&▲ key restore default calibrate value 2.Press ENT key enter data and into INHI setting page
3	INHI(Input high calibrate setting page)	InHi 12345	1.Press ◀&▲ key restore default calibrate value 2.Press ENT key enter data and into CON setting page
4	CON(Terminal Control) Default=non	Con non	3.Decide Terminal Control with ▲&▼ key(non,AZ,HD,MAX,2DSP) 4.Press ENT key enter data and into DP1 setting page
5	DP1(Decimal Point 1) Default=0	dP 1 0	5.Decide decimal point 1 with ▲&▼ key(0~4) 6.Press ENT key enter data and into DSPL1 setting page