

6 CHANNELS 4 DIGITAL MICRO-PROCESS METER with RS-485 MANUAL

* Please understand key indicators & functions at the first operation.

FRONT PANEL & KEY FUNCTIONS



- **1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.
- 2. To modify the parameters, please press A , and press **ENT** to save the parameter after the modification.
- 3. Please don't forget the new pass code after modification.
- 4. In any pages, press △ & , or don't press any keys for 2 minutes that will back to measuring status.

	PRO	GRAMMIN	G MODE OPERATING PROCEDURES	
	ower ON	Display	Descriptions	Default
	*	Moosuri na Sta	Parameter Group Setting Procedures	
Press EN			aus Present value for measurement.	
	P.C. o d	(P.Cod)	Press \land \bigcirc \bigcirc to enter pass code.	00000
Press EN		<	Pass code is correct that will enter to parameter groups	
NO YES			Pass code is wrong that will back to measuring status.	
	545	Press		
Press	T T (SYS) Press ENT	↓ (dsp) Press ENT ↓ (doP)	
System	Setting	Group Decimal	Setting Group RS485 Setting Group	
		Display	Descriptions	Default
	225		System Setting Group Procedures	
	н-5	Input Channels Setting (CH-S)	Press \bigcirc \bigtriangledown to modify the input channels (1~6)	00006
Press ENT		Sensor Type	Press $ riangleq$ to select sensor type setting.	μ
	<u> 375</u>	Setting (tYPE)	(25mV/50mV/0.1V/0.5V/1V/K/J/E/T/R/S/B)	_
	dP	Decimal Point Setting (dP)	Press $ riangleq$ to select decimal point (0~1).	000 1
		Temperature Unit Setting (unit)	Press $ riangleq$ to select the units (°C or°F).	- C
	<u>ביור</u>	Cold Junction Compensation (CJC)	Press $ riangleq$ can switch (on) or (off) cold junction compensation	no
Press ENT	₽ <u>₩</u> ₽₩ <u>₩</u>	Display Average Setting (AvG)	Press <☐ Comparison of the presence o	0005
		Display Low Cut Setting (LCUt)	Press⊲☆☆ to modify display low cut to 0 (0~99).	0000
Press ENT ,	• □dE •	Pass Code Setting (CodE)	Press <☐ ☆ <>>> to modify pass code (0~19999). PS: Please don't forget the new pass code after modification.	0000
Press ENT	<i>בצ</i>]	Key Lock Setting (LoCK)	Press ☆☆ to lock the keys, using key lock function only can view the parameters, but cannot modify any values. PS: no (unlock) ,YES ("ENT" unlock , others lock).	no
		Display	Descriptions	Default
	<u>158</u>		Decimal Setting Group	
	P-1	Decimal Point 1 Setting (DP-1)	Press $ riangleq$ to select decimal point 1(0~3).	0002
	+ /	Display Low Scale 1 Setting (DL-1)	Press∕⊐☆√ to modify display low scale 1 for the input signal zero value.(-1999~9999)	00.00
	₩ ₩-1	Display Hi Scale 1 Setting (DH-1)	Press⊲☐☆√> to modify display high scale 1 for the input signal zero value.(-1999~9999)	10.00

<u>dP-2</u>	Decimal Point 2 Setting (DP-2)	Press $\bigcirc \bigtriangledown$ to select decimal point 2(0~3).	0002
	Display Low Scale 2 Setting (DL-2)	Press⊲⊐☆√> to modify display low scale 2 for the input signal zero value.(-1999~9999)	00.00
Press ENI V	Display Hi Scale 2 Setting (DH-2)	Press⊲☐☆√ to modify display high scale 2 for the input signal zero value.(-1999~9999)	10.00
BREAK L	Decimal Point 3 Setting (DP-3)	Press $\bigcirc \bigtriangledown$ to select decimal point 3(0~3).	0002
<u>dL-3</u>	Display Low Scale 3 Setting (DL-3)	Press<☐ ☆ to modify display low scale 3 for the input signal zero value.(-1999~9999)	00.00
	Display Hi Scale 3 Setting (DH-3)	Press⊲⊐☆√ to modify display high scale 3 for the input signal zero value.(-1999~9999)	10.00
	Decimal Point 4 Setting (DP-4)	Press $\bigcirc \bigtriangledown$ to select decimal point 4(0~3).	2000
	Display Low Scale 4 Setting (DL-4)	Press⊲⊐☆√> to modify display low scale 4 for the input signal zero value.(-1999~9999)	00.00
dH-4	Display Hi Scale 4 Setting (DH-4)	Press⊲☆☆ to modify display high scale 4 for the input signal zero value.(-1999~9999)	10.00
	Decimal Point 5 Setting (DP-5)	Press $\bigcirc \bigtriangledown$ to select decimal point 5(0~3).	2000
Breas FNT J	Display Low Scale 5 Setting (DL-5)	Press⊲☐☆√ to modify display low scale 5 for the input signal zero value.(-1999~9999)	00.00
dH-5	Display Hi Scale 5 Setting (DH-5)	Press⊲⊐∽√> to modify display high scale51 for the input signal zero value.(-1999~9999)	10.00
Breas FNT L	Decimal Point 6 Setting (DP-6)	Press $\bigcirc \bigtriangledown$ to select decimal point 6(0~3).	2000
	Display Low Scale 6 Setting (DL-6)	Press⊲⊐☆√ to modify display low scale 6 for the input signal zero value.(-1999~9999)	00.00
Press ENT	Display Hi Scale 6 Setting (DH-6)	Press<☐ ☆ to modify display high scale 6 for the input signal zero value.(-1999~9999)	10.00
		RS485 Setting Group Procedures	
→ <u>do</u> P	RS485 Setting Page (doP)	The following steps are only available for RS485 type.	
	Address Setting (Addr)	Press独合⇔ to modify address (0~255).	0000
	Baud Rate Setting (bAUd)	Press ☆ to select baud rate (38400/19200/9600/4800).	1922
	Parity Setting (PAri)	Press $\bigcirc \bigtriangledown$ to select parity (n.8.2/n.8.1/even/odd).	n.8.2.

GI	ENERAL MO	DDE OPERATING PROCEDURES	
Block Charts) Display	Descriptions	Default
Power ON		Display: "ZERO" & "SPAN" Adjustment	
┍╼ 1000.0	Mea suring Status	Present value for measurement	
	Display Zero 1 Adjustment (dZEro)	Press \diamondsuit to select adjusting speed rate, press $\diamondsuit \bigtriangledown$ to modify the zero value.	00.00
Press ENI V Press ENI V	Display Span 1 Adjustment (dSPAn)	Press \diamondsuit to select adjusting speed rate, press \diamondsuit \bigtriangledown to modify the span value.	10.00
	Display Zero 2 Adjustment (dZEro)	Press \bigcirc to select adjusting speed rate, press $\bigcirc \bigtriangledown$ to modify the zero value.	00.00
	Display Span 2 Adjustment (dSPAn)	Press \diamondsuit to select adjusting speed rate, press $\diamondsuit\bigtriangledown$ \bigtriangledown to modify the span value.	10.00
	Display Zero 3 Adjustment (dZEro)	Press \diamondsuit to select adjusting speed rate, press $\bigtriangleup \bigtriangledown$ to modify the zero value.	00.00
d5-3	Display Span 3 Adjustment (dSPAn)	Press \diamondsuit to select adjusting speed rate, press $\diamondsuit \bigtriangledown$ to modify the span value.	10.00
	Display Zero 4 Adjustment (dZEro)	Press☆ to select adjusting speed rate, press ☆ 🖓 to modify the zero value.	00.00
	Display Span 4 Adjustment (dSPAn	Press \diamondsuit to select adjusting speed rate, press $\diamondsuit \bigtriangledown$ to modify the span value.	10.00
	Display Zero 5 Adjustment (dZEro)	Press \diamondsuit to select adjusting speed rate, press \diamondsuit \bigtriangledown to modify the zero value.	00.00
	Display Span 5 Adjustment (dSPAn)	Press $\langle \neg$ to select adjusting speed rate, press $\langle \neg \bigtriangledown \rangle$ to modify the span value.	10.00
	Display Zero 6 Adjustment (dZEro)	Press \diamondsuit to select adjusting speed rate, press $\diamondsuit \bigtriangledown$ to modify the zero value.	00.00
Press ENT	Display Span 6 Adjustment (dSPAn)	Press \diamondsuit to select adjusting speed rate, press $\diamondsuit \bigtriangledown$ to modify the span value.	10.00
	Error	Code of Self-Diagnosis	
Display		Descriptions	
RdEr	Input signal is o	ver 120% of input range or meter error.	
doFL	Input signal is o	ver display range	
-doFL	Input signal is u	nder display range	
coFL	Cold junction is	s over sensor's (PT100) measuring range (0~125 $^\circ\mathrm{C}$).	
-coF	Cold junction is	s under sensor's (PT100) measuring range (0~125 $^\circ\mathrm{C}$).	
oPEn	Input signal or o	cold junction is disconection.	
E-00	EEPROM read	ing/writing suffers the interference (about 1 million time	s).
**Please check the w to the factory.	viring connection i	s correct first, if the problem still exist, please return the	emeter

Address	Name	Description	Acce
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	TYPE	Input Range Type,Input Range 0000~000B(0~11)0:25mV,1:50mV,2:0.1V,3:0.5V, 4:1V,5:TYPE K,6:TYPE J,7:TYPE E,8:TYPE T,9:TYPE R,10:TYPE S,11:TYPE B	R/V
0003	DP	Thermocouple Decimal Point, Input Range 0000~0001(0~1) 0:10 ⁰ , 1:10 ⁻¹	R/
0004	UNIT	Temperature Unit, Input Range 0000~0001(0~1) 0:°C,1:°F	R/
0005	CJC	Cold Junction CompenSation, Input Range 0000~0001(0~1) 0:0N, 1:0FF	R/
0006	ADDR	Communication Address, Input Range 0000~00FF(0~255)	R/
0007	BAUD	Baud Rate,Input Range 0000~0004(0~4) 0:38K4,1:19K2,2:9600,3:4800,4:2400	R/
0008	PARI	Parity Check, Input Range 0000~0003(0~3) 0:N.8.2,1:N.8.1,2:EVEN,3:ODD	R/
0009	AVG	Display Average Times, Input Range 0001~000a(1~10)	R/
000a	LCUT	Low Cut,Input Range FF9D~0063(-99~99)	R/
000b	DP_1	Channel 1 Decimal Point, Input Range 0000~0003(0~3) 0:10°, 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/
000c	DP_2	Channel 2 Decimal Point, Input Range 0000~0003(0~3) 0:10°, 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/
000d	DP_3	Channel 3 Decimal Point, Input Range 0000~0003(0~3) 0:10°, 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/
000e	DP_4	Channel 4 Decimal Point, Input Range 0000~0003(0~3) 0:10 ⁰ , 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/
000 f	DP_5	Channel 5 Decimal Point, Input Range 0000~0003(0~3) 0:10 ⁰ , 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/
0010	DP_6	Channel 6 Decimal Point, Input Range 0000~0003(0~3) 0:10 ⁰ , 1:10 ⁻¹ , 2:10 ⁻² , 3:10 ⁻³	R/
0011	DL_1	Channel 1 Display Low , Input Range F831~270F(-1999~9999)	R
0012	DL_2	Channel 2 Display Low , Input Range F831~270F(-1999~9999)	R
0013	DL_3	Channel 3 Display Low , Input Range F831~270F(-1999~9999)	R
0014	DL_4	Channel 4 Display Low , Input Range F831~270F(-1999~9999)	R/
0015	DL_5	Channel 5 Display Low , Input Range F831~270F(-1999~9999)	R
0016	DL_6	Channel 6 Display Low , Input Range F831~270F(-1999~9999)	R/
0017	DH_1	Channel 1 Display High, Input Range F831~270F(-1999~9999)	R/
0018	DH_2	Channel 2 Display High, Input Range F831~270F(-1999~9999)	R/
0019	DH_3	Channel 3 Display High, Input Range F831~270F(-1999~9999)	R/
001a	DH_4	Channel 4 Display High, Input Range F831~270F(-1999~9999)	R/
001b	DH_5	Channel 5 Display High, Input Range F831~270F(-1999~9999)	R/
001c	DH_6	Channel 6 Display High, Input Range F831~270F(-1999~9999)	R
001d	CODE	Pass Code,Input Range 0000~270F(0~9999)	R/
00ae	DI SPLAY1	Channel 1 Normal Display Value,Display Range F831~270F(-1999~9999)	H
00a f	DISPLAY2	Channel 2 Normal Display Value,Display Range F831~270F(-1999~9999)	H
00b0	DISPLAY3	Channel 3 Normal Display Value,Display Range F831~270F(-1999~9999)	F
00b1	DISPLAY4	Channel 4 Normal Display Value,Display Range F831~270F(-1999~9999)	I
00b2	DISPLAY5	Channel 5 Normal Display Value,Display Range F831~270F(-1999~9999)	F
	DISDLAV6	Channel 1 Normal Display Value Display Pange E831-270E(-1000-0000)	i r