CSS-4/5 MICRO-PROCESS METER RELAY



INPUT MODULE:

PLEASE REFER TO THE MODULES INSTALLATION:

ITEM	INPUT TYPE	MODULE ON MD1-SLOT	MODULE ON MD2-SLOT	MODULE ON MD3-SLOT
1	Vdc < 2V (Range fixed)	YMIC/3-4 (IPDC-AMP)	Close J2 on soldering side	YMIC/6-4 (EXCIT)
2	Vdc > 2V (Programmable)	YMIC/1-4 (IPDC-Buffer)	Close J2 on soldering side	YMIC/6-4 (EXCIT)
3	Vac-avg < 2V (Range fixed)	YMIC/3-4 (IPDC- AMP)	YMIC/4-4 (IPAC-AVG)	Х
4	Vac-avg > 2V (Programmable)	YMIC/1-4 (IPDC-Buffer)	YMIC/4-4 (IPAC-AVG)	Х
5	Vac-trms < 2V (Range fixed)	YMIC/3-4 (IPDC- AMP)	YMIC/5-4 (IPAC-TRMS)	Х
6	Vac-trms > 2V Programmable)	YMIC/1-4 (IPDC-Buffer)	YMIC/5-4 (IPAC-TRMS)	Х
7	Adc (Range Fixed)	YMIC/4-4 (IPDC-AMP)	Close J2 on soldering side	Х
8	Aac-avg (Range Fixed)	YMIC/4-4 (IPDC-AMP)	YMIC/4-4 (IPAC-AVG)	Х
9	Aac-trms (Range Fixed)	YMIC/4-4 (IPDC-AMP)	YMIC/5-4 (IPAC-TRMS)	Х
10	Frequency (Range Fixed)	YNCSS/7-4 (NCSS-FQ1)	YNCSS/8-4 (NCSS-FQ2)	YMIC/6-4 (EXCIT)
11	RTD (Range Fixed)	YNCSS/9-4(RTD1-RTD)	YNCSS/10-4(RTD2-RTD)	Х
12	Potentiometer (Range Fixed)	YNCSS/16-4(RTD1-PT)	YNCSS/17-4(RTD2-PT)	Х
13	Resistance (Range Fixed)	YNCSS/18-4(RTD1-RES)	YNCSS/19-4(RTD2-RES)	Х
14	Process Signal	YMIC/2-4 (IPDC-Program)	Close J2 on soldering side	YMIC/6-4 (EXCIT)

REMARK: *Excitation supply is option function. Please specify on the order.

SOFTWARE FUNCTION:

PLEASE FILL IN THE SETTING VALUE ON USER'S SETTING COLUMN SO THAT CAN BE MANAGING IN FILELD:

DISPLAY	FUNCTION	SETTING RANGE	VALUE	SETTING	DESCRIPTION
P.Cod ↓®	Code-Checking	4 digits: -9999~9999 5 digits: 00000~99999	1000		If the code you key-in is correct, you will be allowed enter function setting level. If not the screen will return to normal display.
	Decimal-point	4 digits: 0 ~ 3. 4 1/2 digits: 0 ~ 4. 5 digits: 0 ~ 4.	1.		Decimal point will influence the resolution and scaling range.
HS ₽₪	High Scale	Dip-Switch type: 4 digits: -9999~+9999 4 1/2 digits: 00000~+19999	9999		Set point \leq High Scale
LS ↓₪	Low Scale	5 digits: 00000~+99999 Push Button type: 4 digits: -1999~+9999	0000		Low Scale ≤ Set point
Lo[UL ↓®	Low Cut	4 digits: -19999~+19999 5 digits: -19999~+99999	0000		Set Low Cut > 0, The meter shows "0" when reading is between 0 and + Low Cut (0 < reading < + low cut). Set Low Cut < 0, The meter shows " - Low Cut " when reading is under - low cut (reading < - Low Cut).
-78∪5 ↓®	Moving Average	1~9 times	9		Moving Average function wouldn't influence the response time, unless power on a moment.
₽∪ნ ↓₪	Period Average	1~99 times	5		Average function will influence the response time.
8HL ↓₪	Relay 1 High Trip or Low Trip	HI or LO	LO		Hi: Reading > Set-Point 1 Relay 1 Trip LO: Reading < Set-Point 1 Relay 1 Trip
H7 ↓₪	Relay 1 Hysteresis	4 digits: -9999~+9999 4 1/2 digits: 00000~+19999 5 digits: 00000~+99999	0		Set AHL1 to be LO level trip: Display < Set-point ● Relay 1 Trip Display > Set-point + HY ● Relay 1 Reset
	Relay 1 Trip Delay Time	0~99 seconds	0		If the display lower (or higher) than relay 1 set point, the relay 1 will be delay trip some times you set.
88755 178	Relay 2 High Trip or Low Trip	HI or LO	HI		Hi: Reading > Set-Point 1 Relay 2 Trip LO: Reading < Set-Point 1 Relay 2 Trip
₽85 171	Relay 2 Hysteresis	4 digits: -9999~+9999 4 1/2 digits: 00000~+19999 5 digits: 00000~+99999	0		Set AHL2 to be HI level trip: Display > Set point ● Relay 2 Trip Display < Set-point - HY ● Relay 2 Reset
⊢q5	Relay 2 Trip Delay Time	0~99 seconds	0		If the display lower (or higher) than relay 2 set point, the relay 2 will be delay trip some times you set.
56 \$®	Start Band for first cycle	4 digits: -9999~+9999 4 1/2 digits: 00000~+19999 5 digits: 00000~+99999	0		The relays wouldn't trip between -SB~+SB even the display is already reaching set points.
5dと ↓@	Start Delay Time for first cycle	0~99 seconds	0		The start delay function will be skip when the start band is to be "0". The relay is stand by reading over the start band and the start delay time.
Sod£ ®↓	Security Code	4 digits: -9999~9999 4 1/2 digits: 00000~19999 5 digits: 00000~99999	1000		Please don't forget.

PROGRAAMMING SEQUENCE:

ITEM	PROGRAMMING SEQUENCE DISPLAY		LAY	SETTING RANGE	
	Please check the specification again then power on				
	Self diagnostic and shows error massage				
	BHL U: System error	КВСР		Please send back to our factory	
	Erro Err I: Parameter setting error	Feeo	F !	Reset the EEPROM to initial	
	Hole - A/D converter error	<u> </u>	<u>'- ' ' ' ' ' ' ' ' '</u>	Please send back to our factory	
		 		Please re-calibration again	
	$\neg \Box \vdash 1$ · Upder flow			Please re-calibration again	
	The meter will page to normal display if it works well			Accounting to the scaling	
	* If the meter is first time, please enter the ENGINEER I EVEL to set	0000		The response of Push Button is about	
	the parameter. *			0.2 second. You can press and hold	
	PS. In the ENGINEER LEVEL, the meter will return to	0000		push button to get rolling.	
	time or no longer push any key over 2 minutes.				
1-1	Press 🗐 key to enter the SECURITY CODE screen.	PC od	00000	4 digits: 1000	
1-2	Press 🕑 key, then the setting digit will be flashing.	0000"0"		4 1/2 digits: 1000 5 digits: 01000	
1-3	Press 🖻 key to shift digit or 🕥 key untill the desired value is disply.	0"1"000			
1-4	Press 🗐 key to lock in the value.	01000			
2-1	If the security code is correct, then enter DECIMAL POINT screen.	95	1	4 digits: 3. max	
	Proce key then the setting digit will be flashing			4 1/2 digits: 4. max 5 digits: 4. max	
2-2	Press Key, then the setting digit will be hashing.	۱. «۵»		Decimal point will influence the resolution	
2-3	Press Provide is the value and pass to the past parameter.	∠. _\∩	n	and scaling range.	
2-4		<u> </u>	Z.	4 digits: -9999~+9999 / -1999~+9999	
3-1	Press A key then the setting digit will be flashing		999.99	4 1/2 digits: 0~+19999 / -19999~+19999	
ა-∠ ა ი	Press 🔍 key to shift digit or 🔊 key until the desired value is disply	399.9 9 "1"20 00		This is the maximum displayed value	
31	Press Rev to lock in the value and nass to the next narameter	т 20.00 ЦС	120.00	corresponding to the input range.	
J-4	Enter LOW SCALE screen	<u> </u>	000.00	4 digits: -9999~+9999 / -1999~+9999	
4-1	Press I key then the setting digit will be flashing	ت "0"0	000.00	4 1/2 digits: 0~+19999 / -19999~+19999	
4- <u>7</u>	Press I key to shift diait or I key until the desired value is disply	"1"00.00		This is the minimum displayed value	
	Press 🗐 key to lock in the value and pass to the next parameter.	יסט.סט י ק	-100.00	corresponding to the input range.	
5 1	Enter LOW CUT screen		100.00	4 digits: -9999~+9999 / -1999~+9999	
5-2	Press 🔘 key, then the setting digit will be flashing.	"0"	<u> </u>	4 1/2 digits: 0~+19999 / -19999~+19999 5 digits: 00000~+99999 / -19999~+99999	
5-3	Press Skev untill the desired value is disply.	"5"			
5-4	Press I key to lock in the value and pass to the next parameter.	_[!!F	"5"		
6-1	Enter MOVING AVERAGE screen		9	1~9 times	
6-2	Press 🕥 key, then the LEDS will be flashing.	"9"	<u> </u>	The meter reads times you setting and	
6-3	Press 🕑 key untill the desired value is disply.	"5"		one and throw out the earliest reading	
6-4	Press 🗐 key to lock in the value and pass to the next parameter.	- 70 70	"5"	and averages them. The meter will get	
7-1	Enter PERIOD AVERAGE screen		1	1~99 times	
7-2	Press 🕑 key, then the setting digit will be flashing.	"1"		The meter reads times you setting and	
7-3	Press 🕑 key to shift digit or 🙆 key untill the desired value is disply.	"1"5		reads and averages as same as last	
7-4	Press $ ext{ Press } ext{ Pres$	3uR	15	period. So, the meter will get smoothly display and lower response	
8-1	Enter RELAY 1 TRIP LEVEL selection screen	RHL I	LO	HI or LO	
8-2	Press 🙆 key, then the "LO" or "HI" will be flashing.	"LO"		Hi: Reading > Set-Point 1 Relay 1 Trip	
8-3	Press 🙆 key untill the desired trip level (HI or LO) is disply.	"LO"			
8-4	Press 🕅 key to lock in the value and pass to the next parameter.	<u>886 </u>	LO		
9-1	Enter HYSTERESIS of relay 1 screen	<u> YH</u>	0	0~9999 counts	
9-2	Press 🖸 key, then the setting digit will be flashing.	0.0"0"		Set AHL1 to be LO level trip: HY must be < I HS-Low Set Point I	
9-3	Press 🕑 key to shift digit or 💽 key untill the desired value is disply.	"0".50		Display < Set-point Relay 1 Trip	

ITEM	PROGRAMMING SEQUENCE	DISPLAY		SETTING RANGE
9-4	Press 🖭 key to lock in the value and pass to the next parameter.	H7 !	0.5	
10-1	Enter RUN DELAY of relay 1 screen	rd	0	0~99 seconds
10-2	Press 💽 key, then the setting digit will be flashing.	"0"		If the display lower (or higher) than relay 1
10-3	Press 🖸 key to shift digit or 🙆 key untill the desired value is disply.	"3"		times you set.
10-4	Press 🗐 key to lock in the value and pass to the next parameter.	rd¦	3	
11-1	Enter RELAY 2 TRIP LEVEL selection screen	5 J H R	HI	HI or LO
11-2	Press 🙆 key then the "HI" or "LO" will be flashing.	"HI"		Hi: Reading > Set Point 1 Relay 1 Trip
11-3	Press 🙆 key untills the desired trip level (HI or LO) is disply.	"HI"		Lo. Reading & Get Font To Ready F hip
11-4	Press 🖭 key to lock in the value and pass to the next parameter.	5 J H R	HI	
12-1	Enter HYSTERESIS of relay 2 screen	52H	0	0~9999 counts
12-2	Press 💽 key, then the setting digit will be flashing.	0.0"0"		Set AHL1 to be HI level trip: HY must be < I High Set point-LS I
12-3	Press 💽 key to shift digit or 💽 key untill the desired value is disply.	"0".50		Display > Set-point • Relay 2 Trip
12-4	Press 🖭 key to lock in the value and pass to the next parameter.	2YX	0.5	Display < Set-point - HY Relay 2 Reset
13-1	Enter RUN DELAY of relay 2 screen	567	0	0~99 seconds
13-2	Press 💽 key, then the setting digit will be flashing.	"0"		If the display lower (or higher) than relay 2 set point, the relay 2 will be delay trip some
13-3	Press 🕥 key to shift digit or 🙆 key untill the desired value is disply.	"3"		times you set.
13-4	Press 🖭 key to lock in the value and pass to the next parameter.	- 42	3	
14-1	Enter START BAND screen	56	0	4 digits: -9999~9999
14-2	Press 💽 key, then the setting digit will be flashing.	"0"		5 digits: 00000~99999
14-3	Press \boxdot key to shift digit or $$ key untill the desired value is disply.	"1"0		The relays wouldn't trip between -SB~+SB even the display is already
14-4	Press 🖭 key to lock in the value and pass to the next parameter.	<u>56</u>	10	reaching set points.
15-1	Enter START DELAY TIME screen	Sde	0	0~99 seconds
15-2	Press 💽 key, then the setting digit will be flashing.	"0"		The start delay function will be skip when the start band is to be "0".
15-3	Press \boxdot key to shift digit or $$ key untill the desired value is disply.	"10"		The relay is stand by reading over the start
15-4	Press 🞯 key to lock in the value and pass to the next parameter.	Sdł	10	band and the start delay time.
16-1	Enter SECURITY CODE screen	3603	01000	0000~9999
16-2	Press 💽 key, then the setting digit will be flashing.	0100"0"		
16-3	Press \boxdot key to shift digit or $$ key untill the desired value is disply.	0"2"000		Please enter the newest code when you want to enter the function group next
16-4	Press 🖭 key to lock in the value and pass to the next parameter.	<u> 2603</u>	02000	time.
17-1	[RESET SETTING DATA TO INITIAL]			
17-2	Turn off aux. power first. Pressing and holding 上型 key, thenturn on the aux. Power to enter the RESET function	Erro	98S	
17-3	The meter shows Err0. Press 🙆 key to YES.	98S	_ <u></u>	
17-4	Press 🗐 key to reset data to initial.	0000		

SET TRIP POINT BY PUSH BOTTOM: << Those functions will be cancel if you select Dip Switch type >>

ITEM	PROGRAMMING SEQUENCE	DISPLAY	INITIAL	SETTING RANGE
A-1	Press 🕑 key to enter set point 1 screen, when it is in normal display	5P-¦	00.00	Please don't set the trip point over the
A-2	Press 💽 key, then the setting digit will be flashing.	00.0"0"		high scale or under the low scale.
A-3	Press 团 key to shift digit or 🙆 key untill the desired value is disply.	"0"5.00		
A-4	Press 🕅 key to lock in the value and pass to the next parameter.	56-5	50.00	
B-1	Press 🕑 key to enter set point 1 screen, when it is in normal display	56-5	00.000	Please don't set the trip point over the
B-2	Press 团 key, then the setting digit will be flashing.	00.0"0"		high scale or under the low scale.
B-3	Press 🖸 key to shift digit or 💽 key untill the desired value is disply.	"1"00.00		
B-4	Press 🗐 key to lock in the value and pass to the next parameter.	56-5	100.00	
C-1	Enter the LOCK function screen	Lo[Y	по	If the LOCK = YES, the SP-1 & SP-2
C-2	Press 🙆 key, then the setting digit will be flashing.	по		will be locked.
C-3	Press 🙆 key, untill the desired function is disply.	по	965	
C-4	Press 🕅 key to lock in your selection, and pass to the normal display screen.	0000		