

# 5位數微電腦型盤面式控制電錶(48x48mm)

## (MICROPROCESS PANEL CONTROLLER METER, 48X48mm)

**MODEL  
MA48**



### ■特點(FEATURES)

- 精確度0.05%滿刻度±1位數(Accuracy 0.05% F.S. ±1digit)
- 可量測 交直流電流/交直流電壓/電位計/傳送器/Pt-100/熱電耦/荷重元/電阻...等信號  
(Measuring DCA/DCV/ACA/ACV/Potentiometer/Transmitter/Pt-100/Thermocouple/Load Cell/Resistor/etc...)
- 顯示範圍-19999~99999可任意規劃(Programmable rate -19999~99999 digit)
- 具有自動歸零與保持與最大保持功能(Auto zero and hold and maximum hold function)
- 2組警報功能(Two alarm function)(optional)
- 16 BIT 類比輸出功能(16 bit DAC analog output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(optional)
- 防護等級NEMA4/IP65(Protection class NEMA4/IP65)

1. MODEL: MA48-□□□-□□□□□  
(選購型號)

NO	Input Type	NO	DCV(ACV)	NO	DCA(ACA)	NO	Transmitter	NO	Load Cell	NO	Thermocouple	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux.Power
A	DC	11	0~50mV	21	0~99.999uA	41	DC4~20mA	61	2mV/V	71	J(-200~760)°C	0	None	0	None	N	None	A	AC/DC18~60V
B	AC(RMS)	12	0~5V	22	0~999.99uA	42	DC1~5V	62	3mV/V	72	K(-200~1360)°C	1	One(Relay)	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	AC(TRMS)	13	0~10V	23	0~9.9999mA	43	DC4~20mA	63	2mV/V	73	T(-200~395)°C	2	Two(Relay)	2	DC0~10V				
D	Potentiometer	14	0~36V	24	0~99.999mA	44	DC1~5V	64	3mV/V	74	E(-185~990)°C	3	One(Transistor)	9	SPECIFIED				
E	Transmitter	15	0~54V	25	0~999.99mA	49	SPECIFIED	69	SPECIFIED	75	R(0~1760)°C		(NPN)						
F	Pt-100(RTD)	16	0~110V	26	0~2.0000A								Two(Transistor)						
G	Thermocouple	17	0~600V	27	0~5.0000A								(NPN)						
H	Load Cell	19	SPECIFIED	29	SPECIFIED														
R	Resistor																		

### 2. SPECIFICATION (主要規格)

- Measuring accuracy (精確度): 0.05% F.S. ±1 digit (23±5°C) 0.2% F.S. ±1 digit(AC(RMS)) 0.2% F.S. ±5°C.(CJC)(Thermocouple)
- Sampling time (取樣時間): 16 cycles/sec.
- Readout range (顯示範圍): -19999~99999 digit adjustable
- Alarm delay time (繼電器延遲動作時間): 0~99.9 second adjustable
- Alarm action (繼電器動作方向): HI or Lo adjustable
- Relay contact output (繼電器容量): AC250V-5A, DC30V-5A
- Transistor output type (電晶體輸出型式): Photo couple of open-collector (Max.DC30V/40mA)
- Analog output resolution (類比輸出解析度): 16 bit DAC(Isolating)
- Response time (輸出反應速度): <250ms(0~90%)
- Output drive capability (輸出負載能力): <10mA for voltage mode <10V for current mode
- Output ripple(p-p) (輸出之漣波): 0.1%F.S.
- RS-485 address (通訊位址): "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度): 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議): Modbus RTU mode
- Temp. coefficient (溫度係數): 50ppm/°C (0~50°C)
- Display (顯示幕): Red high efficiency LEDs high 10.16mm(0.4") (PV) Red high efficiency LEDs high 7.00mm(0.28") (SV)
- Parameter setting (參數設定方式): Touch switches
- Memory mode (記憶型式): Non-volatile E<sup>2</sup>PROM memory
- Dielectric strength (絕緣耐壓能力): 2KVac/1 min.(input/output/power) 1600Vdc(input/output)
- Operating condition (使用環境條件): 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件): 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE 認證): EN 55022:1998/A1:2000 Class A EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001 EN55024:1998/A1:2001

### 3. OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)

