

# 薄型二迴路微電腦型類比信號輸入模組

(SLIM TYPE TWO CHANNEL MICROPROCESS ANALOG SIGNAL INPUT MODULE)

MODEL  
SDMAI



## ■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)
- 二迴路類比信號輸入與輸出RS-485隔離功能設計(Two channel input signal isolated output RS-485 for design)
- 輸入1/輸入2與輸出RS-485與電源絕緣耐壓1.5千伏特/1分鐘  
(Dielectric strength 1.5KVac/1min(input1/input2/output RS-485/power))
- 寬範圍交直流兩用電源設計(Wide input range for auxiliary power)
- 尺寸小,穩定性高(Dimension small & High stability)

1.MODEL:SDMAI-□□□□  
(選購型號)

NO	Input Type	NO	DCV(ACV)	NO	DCA(ACA)	NO	Transmitter	NO	Pt-100	NO	Load Cell	NO	Thermocouple	NO	Resistor	NO	Aux.Power
A	DC	11	0~50mV	21	0~99.999uA	41	DC4~20mA	54	-200~850°C	61	2mV/V	71	J(-200~760)°C	91	0~100 ohm(<10mA)	A	AC/DC18~60V
B	AC(RMS)	12	0~5V	22	0~999.99uA	42	DC1~5V	59	SPECIFIED	62	3mV/V	72	K(-200~1360)°C	93	0~1 Kohm(<1mA)	B	AC/DC90~260V
C	AC(TRMS)	13	0~10V	23	0~9.9999mA	43	DC4~20mA	•Three wire connection •Exciting current(<1.24mA) •Pt-100 & thermocouple is same input type		63	2mV/V	73	T(-200~395)°C	96	0~10 Kohm(<100uA)	•Less 4VA for AC/DC input	
D	Potentiometer	14	0~36V	24	0~99.999mA	44	DC1~5V	•41/42 non-exciting DC24V •43/44 exciting DC24V (<25mA, only input 1)	69	SPECIFIED	74	E(-185~990)°C	97	0~100 Kohm(<10uA)			
E	Transmitter	15	0~54V	25	0~999.99mA	49	SPECIFIED								75	R(0~1760)°C	99
F	Pt-100(RTD)	16	0~110V	26	0~2.0000A					76	S(0~1750)°C						
G	Thermocouple	17	0~600V	27	0~5.0000A					77	B(200~1800)°C						
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)  
0.1% F.S. ±1 digit(Pt-100)  
0.2% F.S. ±1 digit(AC(RMS))  
0.2% F.S. ±0.3°C (CJC)(Thermocouple)
- Sampling time (取樣時間): :16 cycles/sec.
- Readout range (顯示值範圍): :-19999~99999 digit adjustable
- Input resistance (輸入阻抗): >1Mohm(<100V ranges)  
>2Mohm(>100V ranges)  
>5Mohm(>500V ranges)  
<0.2VA(Current ranges)
- Potentiometer exciting voltage:DC1.24V(<10mA)  
(電位計電源)
- Load Cell exciting voltage :DC5V/10V(<50mA)  
(荷重元電源)
- Pt-100 exciting current :<1.25mA  
(Pt-100量測電流)
- RS-485 address (通訊位址): : "00"~"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 6.8mm(0.268")
- Parameter setting (參數設定方式): :Touch switches
- Memory mode (記憶型式): :Non-volatile E<sup>2</sup>PROM memory
- Isolation (隔離特性): :Input1/Input2/RS-485/Power/Case
- Insulation Resistance (絕緣阻抗): :>100Mohm with 500VDC
- Dielectric strength (絕緣耐壓能力): :1.5KVac/1 min.(input1/input2/RS-485/power)  
1200Vdc(input/output)
- Operating condition (使用環境條件): :0~60°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(unit=mm) AND CONNECTION DIAGRAM

(外型尺寸(unit=mm)與配線圖)

