

水平式RS485控制4組類比信號輸出隔離模組

(HORIZONTAL TYPE RS-485 CONTROLLER 4 CHANNEL ANALOG OUTPUT ISOLATED MODULE)

MODEL
HMRS2



■特點(FEATURES)

- 類比輸出精確度 $\pm 0.05\%$ 滿刻度(Analog output accuracy $\pm 0.05\%$ F.S.)
- 顯示範圍-19999~99999位數(Readout range form -19999~99999 digit)
- 可同時顯示與輸出類比功能(DC4~20.000mA/0~20.000mA/0~5.000V/0~10.000V)
(Calibrator analog output for DC4~20.000mA/0~20.000mA/0~5.000V/0~10.000V)
- 通訊協議Modbus RTU模式(Modbus RTU mode for RS-485 protocol)
- 4組繼電器輸出功能(Four relay output function)(optional)
- 4組16 BIT類比輸出功能(Four 16 bit DAC analog output(Voltage/current))
- 2組數位脈波(ON/OFF)輸入,計數範圍0~99999,Max.100Hz
(Two set of digit(ON/OFF)input counter 0~99999,Max.100Hz)
- 內建看門狗功能(Built-in watchdog function)

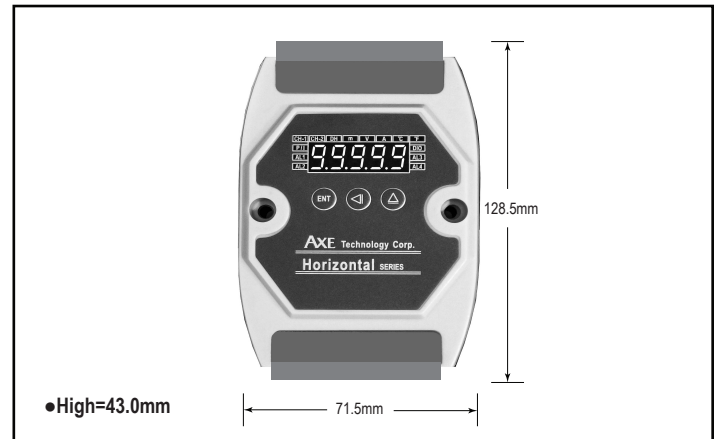
1.MODEL:HMRS2-□□- → [SS] (Stacking Screws)

NO	Relay output	NO	Analog output
N	None	N	None
P	Pulse(Four)	A	DC0~5V/0~10V/ DC0~20mA/4~20mA
R	Relay(Four)		
M	Photo Mos Relay(Four)		

2.SPECIFICATION(主要規格)

- Aux.power supply (輔助電源):DC10~30V($\leq 3.3W$),HMRS2-NX ($\leq 4.3W$),HMRS2-RX
- Analog output accuracy (類比輸出精確度)($23\pm 5^\circ C$): $\pm 0.05\%$ F.S.
- Readout range (顯示值範圍):-19999~99999 digit (RS-485)
DC0~5.000V/0~10.000V(Voltage)
DC0~20.000mA/4~20.000mA(current)
One-short ON($\geq 10ms$ /Max 100Hz)
- Pulse input type (脈波輸入型式):One-short ON($\geq 10ms$ /Max 100Hz)
- Analog output range (類比輸出規格):DC0~5V/0~10V
DC0~20mA/4~20mA can be modified
- Analog output resolution (類比輸出解析度):16 bit DAC(Isolation)
- Analog output slope (類比輸出斜率):0.125~1024mA/sec.(current output)
0.0625~512V/sec.(voltage output)
- Output drive capability (輸出負載能力): $\leq 10mA$ for voltage mode
 $\leq 10V$ for current mode
- Relay contact output (繼電器容量):AC250V-5A,DC30V-5A
- Pulse output type (脈波輸出型式):Photocouple of open-collector
(DC3.5~250V, $\leq 120mA$)
- Photo Mos relay output (Photo Mos繼電器容量):AC/DC3.5~50V, $\leq 0.8A$
- RS-485 address (通訊位址):"00"~"FF"(0~255)
- RS-485 baud rate (傳輸速度):1200~115200 selective
- RS-485 protocol (通信協議):Modbus RTU mode(250 nodes on bus)
- Temp. coefficient (溫度係數):50ppm/ $^\circ C$ (0~50 $^\circ C$)(Analog output)
- Display (顯示幕):Red high efficiency LEDs high 6.80mm(0.268")
- Parameter setting (參數設定方式):Touch switches
- Memory mode (記憶型式):Non-volatile E²PROM memory
- Dielectric strength (絕緣耐壓能力):2KVac/1 min.(output/power/RS-485)
1600Vdc(RS-485/output)
- Operating condition (使用環境條件):0~50 $^\circ C$ (20 to 90% RH non-condensed)
- Storage condition (存放環境條件):0~70 $^\circ C$ (20 to 90% RH non-condensed)
- Construction (安裝方式):35mm DIN rail(EN50021)
- 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(外型尺寸)



4.TERMINAL CONNECTION(配線圖)

	+	-	+	+	-	+		S1		S2		S3		S4		(FRONT)
●Relay output	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
●Pulse output	V mA		V mA		A/O-2 J		A/O-1 J		a com		a com		a com		a com	
	L A/O-2 J		L A/O-1 J		E C		E C		E C		E C		E C		E C	

- Relay output
- Pulse output

+	-	+	+	-	+	+	+	-	+	D+	D-	P+	P-				
1	2	3	4	5	6	7	8	9	10	11	12	13	14				
mA		V		mA		V		PI1		PI2		GND INIT		RS-485		DC	
LA/O-3		LA/O-4														10~30V	

(BEHIND)

- Note 1:Photo Mos Relay output and relay output are marked the same
- Note 2:Only one of the two output (mA/V) mode can be selected
- Note 3:When "INIT"=One-short ON(>100ms)
 - 1:A/O DC4~20mA=4mA
 - 2:A/O DC0~20mA=0mA
 - 3:A/O DC0~5V/0~10V=0V
 - 4:RS-485 is address=00,baud rate=9600,Pari=N.8.2,no checksum