

# 微電腦型轉速, 線速控制錶

( MICROPROCESS RPM & LINE-SPEED CONTROLLER METER ) ( PULSE INPUT )

**MODEL  
MMR**



## ■特點(FEATURES)

- 精確度0.03%滿刻度 (Accuracy 0.03% F.S.)
- 可量測 直流脈波, 磁性感應器信號 (Measuring Pulse(TTL, CMOS), Magnetic pick-up signal)
- 最大輸入頻率 50KHz (Accepts input rates up to 50KHz)
- 轉速, 線速可任意設定 (Display type of RPM or line-speed can be modified)
- 感應器輸入脈波數可任意設定 (Input pulse of revolution can be modified (1~999999 pulse/revolution))
- 2組警報功能 (Two alarm function) (optional)
- 15 BIT 類比輸出功能 (15 bit DAC analog output function) (optional)
- 數位RS-485介面 (Digit RS-485 interface function) (optional)

1: MODEL: MMR- [ ] [ ] - [ ] [ ] [ ] [ ]  
(選購型號)

NO	Input Type	NO	Input Type	NO	Display unit	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux. POWER
A	Pulse (TTL) (5V)	E	Magnetic pick-up(500mV~15V)	1	RPM	0	None	N	None	N	None	A	AC/DC18~60V
B	Pulse (NPN) (12V)	F	AC2~60V	2	M/min	1	One	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	Pulse (PNP) (12V)	O	SPECIFIED	3	Y/min	2	Two	V	DC0~10V		Modbus mode		
D	Magnetic pick-up(50mV~1.5V)			4	f t/min			T	DC4~20mA		256 nodes on bus		Less 4VA for AC/DC input
				9	SPECIFIED			R	SPECIFIED				

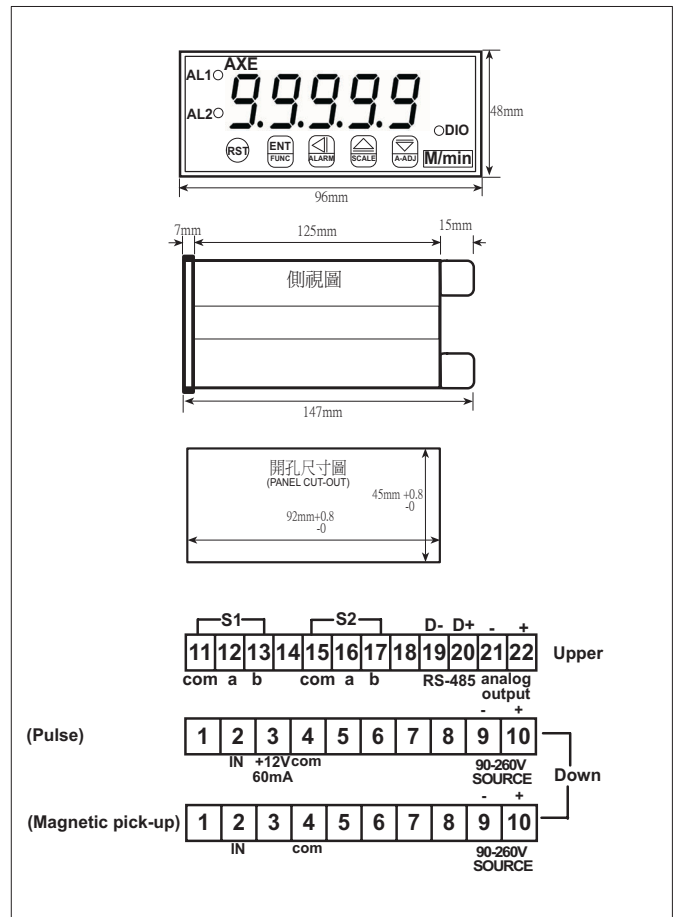
• Two-wire transmitter (Exciting voltage DC10~36V)

## 2: SPECIFICATION (主要規格)

- Measuring accuracy : 0.03% F.S. (23±5°C) (精確度)
- Count input type : Jump-pin selectable current sourcing(NPN) or current sinking (PNP) (脈波輸入型式)
- Count input trigger levels : HI bias (CMOS) (V<sub>IH</sub>=7.5V, V<sub>IL</sub>=5.5V) LO bias (TTL) (V<sub>IH</sub>=3.7V, V<sub>IL</sub>=2.0V) (脈波觸發電位)
- Max.count rates : 50KHz (50% duty cycle) (最高輸入頻率)
- Sampling time : 10 cycles/sec. (>10Hz) f cycles/sec. (<10Hz) (取樣時間)
- Over input indication : " doFL " (過載顯示)
- Readout range : 0 to 99999 digit adjustable (顯示值範圍)
- Diameter setting : 0 to 9.9999M (直徑設定範圍)
- Alarm action : HI or Lo adjustable (繼電器動作方向)
- Relay contact output : AC 250V-5A, DC 30V-7A (繼電器容量)
- Analog output resolution : 15 bit DAC (isolating) (類比輸出解析度)
- Response time : < 250ms(0~90%) (輸出反應速度)
- Output drive capability : < 10mA for voltage mode < 10V for current mode < [(V+)-7.5V]/20mA for two-wire mode (輸出負載能力)
- Output ripple (p-p) : < 0.1% F.S. (輸出之漣波)
- RS-485 address : "01"~"FF"(0~255) (通訊位址)
- RS-485 baud rate : 19200/9600/4800/2400 selective (傳輸速度)
- Display : Red high efficiency LEDs high 14.22mm (0.56") (顯示幕)
- Sensor power supply : 12VDC±3%(<60mA) (感應器電源)
- Memory mode : Non-volatile E<sup>2</sup> PROM memory (記憶方式)
- Dielectric strength : 2KVac/1 min. (input/power/display) 1600Vdc (input/output) (絕緣耐壓能力)
- Operating condition : 0~50°C (20 to 90% RH non-condensed) (使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed) (存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001 EN 55024:1998/A1:2001 (CE認證)

## 3: OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



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