

# 微電腦型多功能轉速, 線速控制錶(顯示幕0.8", 48x96x85mm) ( MULTI-FUNCTION MICROPROCESS RPM & LINE-SPEED CONTROLLER METER ) (PULSE INPUT)

**MODEL  
MMRH**



## ■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 200KHz(Accepts input rates up to 200KHz)
- 計數速度50/500/200000脈波/每秒可選擇(Accept input rates 50/500/200000 CPS can be modified)
- 雙輸入運算功能(Dual input math function B-A,B/A,1-(B/A),B/(A+B))
- 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 (1~99999pulse/revolution))
- 4 組警報功能(Four alarm function)(optional)
- 16 BIT 類比輸出功能(16 bit DAC analog output function)(optional)
- 數位RS-485介面(Digit RS-485 interface function)(optional)

1:MODEL:MMRH-□ □ □ □ □  
(選購型號)

NO	Input Type	NO	Alarm output	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux.POWER
A	Pulse (PNP) (5V)	0	None	5	One (Transistor NPN)	N	None	N	None	A	AC/DC18~60V
B	Pulse (NPN) (12V)	1	One (Relay)	6	Two (Transistor NPN)	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	Pulse (PNP) (12V)	2	Two (Relay)	7	Three(Transistor NPN)	V	DC0~10V		•Modbus mode •256 nodes on bus		•Less 4VA for AC/DC input
D	Magnetic pick-up(30mV~30V)	3	Three(Relay)	8	Four(Transistor NPN)	T	•DC4~20mA				
F	AC50~600V	4	Four(Relay)			R	SPECIFIED				
O	SPECIFIED		•Relay contact(AC250V-5A,DC30V-7A)		•Transistor output(Photo couple of open-collector,Max.DC30V/40mA)		•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 : High level:  $V_{IH}=DC4\sim30V$ (pulse) (脈波觸發電位)  
High level:  $V_{IH}=AC30mV\sim30V$ (Magnetic pick-up)  
Low level:  $V_{IL}=DC0\sim2V$ (pulse)  
Low level:  $V_{IL}=AC0mV\sim20mV$ (Magnetic pick-up)
- Max.count rates : <200KHz (One input type) (最高輸入頻率)  
<100KHz (Two input type)  
<1KHz (Magnetic pick-up/AC50~600V)
- Sampling time : 10 cycles/sec. (>10Hz) (取樣時間)  
f cycles/sec. (<10Hz)
- Readout (compare)range : 0 to 99999 digit adjustable (顯示值(比較)範圍)
- Diameter setting : 0 to 9.9999M (直徑設定範圍)
- Alarm action : HI or Lo adjustable (警報動作方向)
- Transistor output type : Photo couple of open-collector (電晶體輸出形式) (Max.DC30V/40mA)
- Relay contact output : AC 250V-5A, DC 30V-7A (繼電器容量)
- Analog output resolution : 16 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 (輸出負載能力)  
< 10V for current mode  
<[(V+)-7.5V]/20mA for two-wire mode
- 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 : 38400/19200/9600/4800/2400 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) (絕緣耐壓能力)  
1600Vdc (input/output)
- 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 (CE認證)  
EN 61000-3-2:2000  
EN 61000-3-3:1995/A1:2001  
EN 55024:1998/A1:2001

## 3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)

