

# 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,(B/A-1),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<br>●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)  | ●Transistor output(Photo couple of open-collector,Max.DC30V/40mA) |                       | R  | SPECIFIED     | ●Two-wire transmitter (Exciting voltage DC10~36V) |        |                           |              |  |  |
| O  | SPECIFIED                  | ●Relay contact(AC250V-5A,DC30V-7A) |              |                                                                   |                       |    |               |                                                   |        |                           |              |  |  |

## 2:SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.03% F.S. (23±5°C)
- Count input type (脈波輸入型式) : Jump-pin selectable current sourcing(NPN) or current sinking (PNP)
- Count input trigger levels (脈波觸發電位) : High level:  $V_{IH}=DC4\sim30V$ (pulse)  
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 (最高輸入頻率) : <200KHz (One input type)  
<100KHz (Two input type)  
<1KHz (Magnetic pick-up/AC50~600V)
- Sampling time (取樣時間) : 10 cycles/sec. (>10Hz)  
f cycles/sec. (<10Hz)
- Readout (compare)range (顯示值(比較)範圍) : 0 to 99999 digit adjustable
- Diameter setting (直徑設定範圍) : 0 to 9.9999M
- Alarm action (警報動作方向) : HI or Lo adjustable
- Transistor output type (電晶體輸出形式) : Photo couple of open-collector (Max.DC30V/40mA)
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- 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  
<[(V+)-7.5V]/20mA for two-wire 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) : 38400/19200/9600/4800/2400 selective
- Display (顯示幕) : Red high efficiency LEDs high 14.22mm (0.56")
- Sensor power supply (感應器電源) : 12VDC±3%(<60mA)
- Memory mode (記憶方式) : Non-volatile E<sup>2</sup> PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/power/display)  
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  
EN 55024:1998/A1:2001

## 3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)

