

# 直流多功能集合式電錶 ( MULTI-FUNCTION DC METER )

MODEL  
MM2D-DT



## ■特點(FEATURES)

- 精確度0.03%滿刻度±1位數(Accuracy 0.03% F.S.±1digit)
- 可同時量測與顯示直流電壓/電流/瓦特(仟瓦)/瓦特小時(仟瓦小時)  
(Measuring and display DCV/DCA/W/KW/WH/KWH)
- 顯示範圍0至99999(瞬間量)0至999999999(十位數累積量)可任意規劃  
(Programmable rate 0 to 99999 digit(rate), 0 to 999999999 digit(totalizer))
- 4組警報功能(Four alarm function )(optional)
- 16BIT 類比輸出功能(16 bit DAC analog output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(optional)

## 1.MODEL:MM2D-DT (選購型號)

| NO | DCV Input | NO | DCA Input     | NO                                                        | Alarm output | NO | Analog output         | NO                                | RS-485 output | NO                        | Aux. Power   |
|----|-----------|----|---------------|-----------------------------------------------------------|--------------|----|-----------------------|-----------------------------------|---------------|---------------------------|--------------|
| 1  | 0~10V     | 1  | 0~50mV(SHUNT) | N                                                         | None         | 0  | None                  | N                                 | None          | A                         | AC/DC18~60V  |
| 2  | 0~20V     | 2  | 0~200mA       | Y                                                         | YES          | 1  | DC4~20mA              | Y                                 | RS-485        | B                         | AC/DC90~260V |
| 3  | 0~50V     | 3  | 0~2A          | •YES=Four alarm<br>•Relay contact(AC250V-5A,<br>DC30V-7A) |              | 2  | DC0~10V               | •Modbus mode<br>•256 nodes on bus |               | •Less 4VA for AC/DC input |              |
| 4  | 0~100V    | 4  | 0~5A          |                                                           |              | 3  | •DC4~20mA             |                                   |               |                           |              |
| 5  | 0~300V    | 5  | 0~10A         |                                                           |              | 9  | SPECIFIED             |                                   |               |                           |              |
| 9  | SPECIFIED | 9  | SPECIFIED     |                                                           |              |    | •Two-wire transmitter |                                   |               |                           |              |

## 2.SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.03% F.S.±1 digit(DCV)  
(23±5°C) 0.05% F.S.±1 digit(DCA/W/KW/WH/KWH)
- Sampling time (取樣時間) : 10 cycles/sec.
- Readout range (顯示值範圍) : 0~99999 digit adjustable(rate)  
0~999999999 digit adjustable(totalizer)
- Alarm delay time (繼電器延遲動作時間) : 0~99.9 second adjustable
- Alarm action (繼電器動作方向) : HI or Lo adjustable
- 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
- 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  
(Exciing DC10~36V)
- 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) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 30ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 10.18mm(0.4")
- Parameter setting (參數設定方式) : Touch keys
- Memory mode (記憶型式) : Non-volatile E<sup>2</sup> PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input1/input2/output/power)  
1600 Vdc (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)

