

5位數微電腦型雙計數輸入(運算功能)長度, 流量顯示控制電錶(48x96mm) (5 DIGIT MICROPROCESS DUAL COUNTER(MATH FUNCTION) LENGTH & FLOW CONTROLLER METER)

**MODEL
MMCD-M**



■特點(FEATURES)

- 最高輸入頻率10KHz(Accepts input rates up to 10KHz)
- 可同時量測與顯示兩組感應器信號輸入(Dual input measuring and display sensor signal)
- 雙輸入數學運算功能(Dual input math function A+B,A-B,Ax B,A/B)
- 三種輸入模式可選擇(加減算,方向性加減算,90度相位差加減算)
(Three counting modes up/down,direct-up/down,quadrature-up/down can be modified)
- 90度相位差加減算具有提高解析度4倍功能(Quadrature sensing up to 4 times resolution)
- 輸入脈波具有預設刻度0.0001至9.9999功能(Input scaling multiplied 0.0001 to 9.9999 can be modified)
- 4組獨立警報功能(Four independent alarm function)(optional)
- 16 BIT 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: MMCD-M (選購型號)

NO	Input Type(Exciting Voltage)	NO	Input rates	NO	Alarm output	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux. POWER
A	Pulse (TTL)(5V)	1	50 Pulse/Sec	0	None	5	One(Transistor)	N	None	N	None	A	AC/DC18~60V
B	Pulse(NPN)(12V)	2	10000 Pulse/Sec	1	One(Relay)	6	Two(Transistor)	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	Pulse(PNP)(12V)	•1:Contact input •2:Non-contact input		2	Two(Relay)	7	Three(Transistor)	V	DC0~10V	•Modbus mode •256 nodes on bus		*Less 4VA for AC/DC input	
O	SPECIFIED			3	Three(Relay)	8	Four(Transistor)	T	DC4~20mA				
				4	Four(Relay)			R	SPECIFIED				
					•Relay contact(AC250V-5A,DC30V-7A)				•Two-wire transmitter output (Exciting voltage DC10~36V)				

2. SPECIFICATION (主要規格)

- 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)
Low level: $V_{IL}=DC0\sim2V$ (Pulse)
- Maximum count rates (最高輸入頻率): <10KHz(Up/Down,Direct-Up/Down mode)
<5KHz(Quadrature-Up/Down mode)
- Over input indication (過載顯示): "doFL" and "-doFL"
- Readout (compare) range (顯示(比較值)範圍): -19999~99999 digit adjustable
- Alarm action (繼電器動作方向): HI or Lo adjustable
- Alarm output responses time (警報輸出反應時間): <10ms(Relay output)
<0.5ms(Transistor output)
- Relay contact output (繼電器容量): AC250V-5A,DC30V-7A
- Transistor output type (電晶體輸出型式): Photo couple of open-collector(Max.DC30V/40mA)
- Analog output resolution (類比輸出解析度): 16 bit DAC(Isoating)
- Response time (輸出反應速度): <1/f+10ms(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): "00"~"FF"(0~255)
- RS-485 baud rate (傳輸速度): 38400/19200/9600/4800/2400 selective
- RS-485 protocol (通信協議): Modbus RTU mode
- Display (顯示幕): Red high efficiency LEDs high 10.18mm(0.4")
- Sensor power supply (感應器電源): 12VDC $\pm 3\%$ (<60mA)
- Memory mode (記憶型式): Non-volatile E²PROM memory
- Dielectric strength (絕緣耐壓能力): 2KVac/1 min.(input/output/power)
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
EN55024:1998/A1:2001

3. OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)

