

# 類比與脈波輸入流量瞬間量/累積量(10位數)顯示控制電錶 ( PULSE/ANALOG INPUT FLOW RATE/TOTALIZER CONTROLLER METER )

**MODEL  
MAFRT**



## ■特點(FEATURES)

- 精確度0.05%滿刻度±1位數(Accuracy 0.05% F.S.±1 digit)
- 可同時量測與顯示瞬間量(5位數)/累積量(10位數)  
(Measuring and display rate(5 digits)/totalizer(10 digits))
- 5種流量單位可任意設定(Display flow unit TON/M<sup>3</sup>/Liter/GAL/CC can be modified)
- 4種時間基數可任意規劃(Programable time base 1 or 60 or 3600 or 86400 second)
- 具有開根號功能(Math-rootextractor function,rootextractor contain 0.5/1.5/2.5)
- 具有累積量同步脈波輸出功能(Synchronize totalizer of pulse output function)
- 具有16段線性折補功能(Correction (16 segments) for non-linearity function)(optional)
- 4組警報功能(Four alarm function)(optional)
- 16 BIT 隔離類比輸出(16 bit DAC isolating analog output function)(optional)
- 數位 RS-485 界面(Digit RS-485 interface function)(optional)

1.MODEL:MAFRT-□□□-□□□□  
(選購型號)

NO	Input Type	NO	Input Type	NO	Linearity function	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux. Power
A	DC1~5V & NPN/PNP Voltage pulse	O	SPECIFIED	N	None	0	None	N	None	N	None	A	AC/DC18~60V
B	DC4~20mA & NPN/PNP Voltage Pulse			Y	16 point(Correction for non-linearity)	2	Two(Relay)	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	DC1~5V & Magnetic pick-up					4	Four(Relay)	V	DC0~10V				
D	DC4~20mA & Magnetic pick-up					2E	Two(Transistor(NPN))	R	SPECIFIED				

## 2.SPECIFICATION (主要規格)

- Measuring accuracy (精確度) (23±5°C) : 0.05% F.S.±1 digit(Rate/Analog input)
- Readout/compare range (顯示值/比較值範圍) : 0~99999 digit(Rate)  
0~999999999 digit(Totalizer)
- Input type (輸入型式) : DC4~20mA/DC1~5V(Analog)  
Current sourcing(NPN)/Current sinking(PNP)/Switch contact(Pulse)(inside jump selectable)
- Count input trigger levels (脈波觸發電位) : High level: V<sub>IH</sub>=DC4~30V(Pulse)  
V<sub>IH</sub>=AC30mV~30V(Magnetic pick-up)  
V<sub>IH</sub>=Rmax.<500 ohm(Switch contact)  
Low level: V<sub>IL</sub>=DC0~2V(Pulse)  
V<sub>IL</sub>=AC0~20mV(Magnetic pick-up)  
V<sub>IL</sub>=Rmax.>1K ohm(Switch contact)
- Max.count rates (最高輸入頻率) : <10KHz(50% duty cycle(Pulse))  
<1KHz(Magnetic pick-up)  
<100Hz(Switch contact)
- 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) : < 50ms(0~90%)
- Output drive capability (輸出負載能力) : < 10mA for voltage mode  
< 10V for current mode
- Pulse output (脈波輸出容量) : Photo couple of open-collector(Max.DC30V/50mA)  
(Synchronize totalizer)(Max.100Hz)
- 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
- Temp. coefficient (溫度係數) : 50ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 10.16mm(0.4")
- 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. (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  
EN 55024:1998/A1:2001

## 3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)

