



### ■ FEATURES

- Accuracy 0.05% F.S.  $\pm 1$  digit
- Measuring and display rate(5 digits)/batch(6 digits)/totalizer(10 digits)
- Display flow unit TON/M<sup>3</sup>/Liter/GAL/CC can be modified
- Programmable time base(1 or 60 or 3600 or 86400 second)
- Prestop counting function
- Two-counting mode Up/Down for batch controller
- Front panel push buttons allow the operator to start/stop/batch reset function
- Synchronize totalizer of pulse output function
- Protection class NEMA4/IP64

### 1.MODEL:MRT-B

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	I	DC4~20mA	Y	RS-485	B	AC/DC18~60V								
B	DC4~20mA & NPN/PNP Voltage Pulse		• DC4~20mA (input impedance=50 ohm )	Y	16 point(linearity)	2	Rate/Totalizer		• Only analog input type		• Relay contact(AC250V~5A DC30V~7A)	V	DC0~10V		• Modbus RTU mode		• 256 nodes on bus		• Less 5VA for AC/DC input				
C	DC1~5V & Magnetic pick-up		• DC1~5V (input impedance=500 Kohm )									R	SPECIFIED										
D	DC4~20mA & Magnetic pick-up																						

### 2.SPECIFICATION

- Measuring accuracy : 0.05% F.S.  $\pm 1$  digit(Rate/Analog input)  
(23 $\pm 5^{\circ}$ C)
- Readout/compare range : 0~99999 digit(Rate)/0~999999 digit(Batch)  
0~999999999 digit(Totalizer)
- Input type : In side jump selectable:  
DC4~20mA/DC1~5V(Analog)  
Current sourcing(NPN)/Current sinking(PNP)/  
Switch contact(Pulse)
- Count input trigger levels : High level:  $V_{IH}$ =DC4~30V(Pulse)  
 $V_{IH}$ =AC30mV~30V(Magnetic pick-up)  
 $V_{IH}$ = $R_{max}$ .<500 ohm(Switch contact)  
Low level:  $V_{IL}$ =DC0~2V(Pulse)  
 $V_{IL}$ =AC0~20mV(Magnetic pick-up)  
 $V_{IL}$ = $R_{max}$ .>1K ohm(Switch contact)
- Max.count rates : <10KHz(50% duty cycle(Pulse))  
<1KHz(Magnetic pick-up)  
<100Hz(Switch contact)
- Batch controller start time delay : 0 to 99 second adjustable(Output2)
- Batch controller prestop range : 0 to 9999 digit adjustable(Output2)
- Batch controller counting modes : Up or Down can be modified
- Batch controller output reset type : Manual(N) or Auto restart(A) can be modified
- Analog output resolution : 16 bit DAC
- Response time : < 50ms(0~90%)
- Output drive capability : < 10mA for voltage mode  
< 10V for current mode
- Pulse output : Photo couple of open-collector(Max.DC30V/50mA)  
(Synchronize totalizer)(Max.100Hz)
- RS-485 address : "01"~"FF"(0~255)
- RS-485 baud rate : 38400/19200/9600/4800/2400 selective
- Temp. coefficient : 50ppm/ $^{\circ}$ C (0~50 $^{\circ}$ C)
- Display (Rate/Totalizer) : Red high efficiency LEDs high 10.16mm(0.4")  
(Batch) : Red high efficiency LEDs high 7.0mm(0.28")
- Memory mode : Non-volatile E<sup>2</sup> PROM memory
- Dielectric strength : 2KVac/1 min. (input/output/power)  
1600Vdc (input/output)
- Operating condition : 0~50 $^{\circ}$ C (20 to 90% RH non-condensed)
- Storage condition : 0~70 $^{\circ}$ C (20 to 90% RH non-condensed)
- CE EMC Certification : 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

