



(FEATURES)

- Accuracy 0.03% F.S.
- Measuring Pulse(TTL, CMOS), Magnetic pick-up signal
- Accepts input rates up to 50KHz
- Display type of RPM or line-speed can be modified
- Input pulse of revolution can be modified (1-99999pulse/revolution)
- Two alarm function (optional)
- Multiplier bank analog output function
- 15 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

1:MODEL:MMR-()-()-()-()-()

NO	Input Type	NO	Input Type	NO	Display unit	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux.POWER
A	Pulse (TTL) (5V)	E	Magnetic pick-up(500mV-15V)	1	RPM	0	None	N	None	N	None	A	AC/DC18-60V
B	Pulse (NPN) (12V)	F	AC2-60V	2	M/min	1	One	I	DC4-20mA	Y	RS-485	B	AC/DC90-260V
C	Pulse (PNP) (12V)	O	SPECIFIED	3	Y/min	2	Two	V	DC0-10V		#Modbus mode		#Less 4VA for AC/DC input
D	Magnetic pick-up(50mV-1.5V)			4	f t/min		#Relay contact (AC250V-3A,DC30V-5A)	R	SPECIFIED				
				9	SPECIFIED				#input/output isolating				

2:SPECIFICATION

- #Measuring accuracy : 0.03% F.S. (23 $\pm$ 5 $^{\circ}$ C)
- # Count input type : Switch selectable current sourcing(NPN) or current sinking (PNP)
- # Count input trigger levels : HI bias (CMOS) (V_{IH} =7.5V, V_{IL} =5.5V)
LO bias (TTL) (V_{IH} =3.7V, V_{IL} =2.0V)
- # Max.count rates : 50KHz (50% duty cycle)
- # Sampling time : 10 cycles/sec. (>10Hz)
f cycles/sec. (<10Hz)
- # Over input indication : " doFL "
- # Readout range : 0 to 99999 digit adjustable
- # Diameter setting : 0 to 9.9999M
- # Alarm action : HI or Lo adjustable
- # Relay contact output : AC 250V-3A, DC 30V-5A
- # Analog output resolution : 15 bit DAC (isolating)
- # Response time : < 250ms(0-90%)
- # Output drive capability : < 10mA for voltage mode
< 10V for current mode
- # Output ripple (p-p) : < 0.1% F.S.
- # RS-485 adress : "01"- "FF"
- # RS-485 baud rate : 19200/9600/4800/2400 selective
- # RS-485 protcole : Modbus RTU mode
- # Display : Red high efficiency LEDs high 14.22mm (.56")
- # Parameter setting : Touch switches
- # Sensor power supply : 12VDC $\pm$ 3%(<60mA)
- # Memory mode : Non-volatile E² PROM memory
- # Dielectric strength : 2KVac/1 min. (input/power/display)
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)

3:OUTSIDE DIMENSION AND CONNECTION DIAGRAM

