



FEATURES

- Readout range from -19999 to 99999 digit
- Accepts input rates up to 50KHz
- Accept input rates 50 or 50000 CPS can be modified
- Five counting modes Front/after edge-up, up/down, direct-up/down, quadrature-up/down can be modified
- Quadrature sensing up to 4 times resolution
- Input scaling multiplied 0.0001 to 9.9999 can be modified
- Two alarm function (optional)
- 16 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)
- Protection class NEMA4/IP65

1. MODEL: MMC48

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 (PNP)(5V)	1	50 Pulse/Sec	0	None	3	One(Transistor NPN)	N	None	N	None	A	AC/DC18-60V
B	Pulse(NPN)(12V)	2	50000 Pulse/Sec	1	One(Relay)	4	Two(Transistor PNP)	I	DC4-20mA	Y	RS-485	B	AC/DC90-260V
C	Pulse(PNP)(12V)	•1: Contact input		2	Two(Relay)	•Max. DC30V/40mA		V	DC0-10V	•Modbus mode		•Less 3VA for AC/DC input	
O	SPECIFIED	•2: Non-contact input		•Relay contact(AC250V-5A, DC30V-5A)				R	SPECIFIED	•256 nodes on bus			

2. SPECIFICATION

- Count input type : Jump-pin selectable current sourcing(NPN) or current sinking(PNP)
- Count input trigger levels : High level: $V_{IH}=DC4\sim30V$ (Pulse)
Low level: $V_{IL}=DC0\sim2V$ (Pulse)
- Maximum count rates : <50KHz(up, down, up/down, direct-up/down mode)
<25KHz(quadrature-up/down mode)
- Readout range : -19999~99999 digit adjustable
- Alarm action : HI or Lo adjustable
- Alarm output responses time: <10ms(relay output)
<0.5ms(transistor output)
- Relay contact output : AC250V-5A, DC30V-5A
- Transistor output type : Photo couple of open-collector (Max. DC30V/40mA)
- Analog output resolution : 16 bit DAC(Isolating)
- Response time : <1/f+10ms(0~90%)
- Output drive capability : <10mA for voltage mode
<10V for current mode
- Output ripple(p-p) : 0.1%F.S.
- RS-485 address : "01" ~ "FF" (0~255)
- RS-485 baud rate : 19200/9600/4800/2400 selective
- RS-485 protocol : Modbus RTU mode
- Display : Red high efficiency LEDs high 10.16mm(0.4") (PV)
Red high efficiency LEDs high 7.00mm(0.28") (SV)
- Parameter setting : Touch switches
- Sensor power supply : 5Vdc $\pm 3\%$ (<60mA)
12Vdc $\pm 3\%$ (<60mA)
- Memory mode : Non-volatile E²PROM memory
- Dielectric strength : 2KVac/1 min.(input/output/power)
1600Vdc(input/output)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
- Storage condition : 0~70°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
EN55024:1998/A1:2001

3. OUTSIDE DIMENSION AND CONNECTION DIAGRAM

