

# 5 DIGIT MICROPROCESS COUNTER, 24x48mm

MODEL  
MCS



## FEATURES

- Accepts input rates up to 10KHz
- Four counting modes Up, Down, Up/Down, quadrature can be modified
- Quadrature sensing up to 4 times resolution
- Input scaling multiplied 0.00001 to 9.99999 can be modified
- Count inhibit function (GATE control)
- Three alarm function (optional)
- 15 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

1: MODEL: MCS-□ □ □ - □ □ □

NO	Input Type	NO	Input Rates	NO	Alarm Output	NO	Analog output	NO	RS-485	NO	Aux. Power
A	Pulse (TTL) (5V)	1	50 pulse/sec	0	None	N	None	N	None	A	AC/DC 18~60V
B	Pulse (NPN) (12V)	2	10000 pulse/sec	1	One	I	DC4~20mA	Y	RS-485	B	AC/DC 90~260V
C	Pulse (PNP) (12V)			2	Two	V	DC0~10V				
O	SPECIFIED		1: Contact input 2: Non-contact input			R	SPECIFIED		• Modbus mode • 256 modes on bus		• Less 4VA for AC/DC input

## 2: SPECIFICATION

- Count input type : Jump-pin 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 : <10KHz (up, down, up/down mode)  
<3KHz (quadrature mode)
- Readout (compare) rang : -19999 to 99999
- Output hold time : 0.1 to 99.9 second adjustable
- Output reset type : Manual (N) or automatic (R or C) can be modified
- Relay contact output : AC 250V-2.5A, DC 30V-5A
- Analog output resolution : 16 bit DAC
- 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 adress : "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")
- Parameter setting : Touch switches
- Sensor power supply : 12VDC  $\pm 3%$  (<60mA)
- 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°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  
EN 55024:1998/A1:2001

## 3: OUTSIDE DIMENSION AND CONNECTION DIAGRAM

