

MODEL
MCP

- Accepts input rates up to 10KHz
- Four counting modes Up,Down,Up/Down,quadrature-up/down can be modified
- Quadrature sensing up to 4 times resolution
- Input scaling multiplied 0.00001 to 9.99999 can be modified
- Two alarm function (optional)
- 16 bit DAC analog output function (optional)
- Djsit RS-485 interface function (optional)

NO	Display	NO	Input Type (Exciting voltage)	NO	Input rates	NO	Alarm Output	NO	Analog output	NO	RS-485	NO	Aux.Power
4	4 digit	A	Pulse (TTL)(5V)	1	50 Pulse/Sec	1	One	N	None	N	None	A	AC/DC18~60V
6	6 digit	B	Pulse(NPN)(12V)	2	10000 Pulse/Sec	2	Two(AL1/AL2=Alone-4 digit)	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
		C	Pulse(PNP)(12V)		1:Contact input		Two(AL2=Pre-warm-2 digit)	V	DC0~10V		•Modbus mode		•Less 4VA for AC/DC input
		O	SPECIFIED		2:Non-contact input	3	•MCP-6 only	R	SPECIFIED		•256 nodes on bus		
								T	•DC4~20mA(Two-wire transmitter exciting voltage DC10~36V)				

•Count input type	:Jump-pin selectable current sourcing(NPN) or current sinking(PNP)
•Count input trigger levels	:High level:V _{IH} =DC4~30V(Pulse) Low level:V _{IL} =DC0~2V(Pulse)
•Max.count rates	:<10KHz(up,down,up/down mode) <3KHz(quadrature mode)
•Readout range	:-1999 to 9999(MCP-4) -199999 to 999999(MCP-6)
•Compare range	:0 to 9999(MCP-4) 0 to 999999(MCP-6)
•Output hold time	:0.1 to 999.9 second adjustable
•Output reset type	:Manual(N) or automatic (R or C) can be modified
•Relay contact output	:AC250V-5A,DC30V-7A
•Transistor output	: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 <[(V ₊)-7.5V]/20mA for two-wire 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
•Display	:Red high efficiency LEDs high 14.22mm(0.56")
•Parameter setting	:Touch switches
•Sensor power supply	:5Vdc ±3%(<60mA) 12Vdc ±3%(<60mA)
•Memory mode	:Non-volatile E ² 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 EN55024:1998/A1:2001

Figure 1: Dimensions and terminal layout of the alarm unit.

Dimensions:

- Front view: 96mm width, 48mm height, 15mm protrusion on the right.
- Side view: 112mm width.
- Rear view: Panel cut-out dimensions 92mm x 45mm.

Terminal Layouts:

(Upper) Two relay output:

11	12	13	14	15	16	17	18	19	20	21	22
S1			S2			D- D+ - +					
com a b			com a b			RS-485 analog output					

(Two transistor) (NPN output):

11	12	13	14	15	16	17	18	19	20	21	22
S1			S2			D- D+ - +					
C (+) E (-)			C (+) E (-)			RS-485 analog output					

(Down) One relay output:

1	2	3	4	5	6	7	8	9	10		
S1		S2		D- D+ - +							
IN (B)		IN (A)		+12V 60mA		GND RST		com a b		90-260V SOURCE	

(One transistor) (NPN output):

1	2	3	4	5	6	7	8	9	10		
S1		S2		D- D+ - +							
IN (B)		IN (A)		+12V 60mA		GND RST		C (+) E (-)		90-260V SOURCE	

Note1: One alarm output only down terminal