

# MULTI-FUNCTION DC METER

MODEL  
MM2D-DT



## ■ FEATURES

- Accuracy 0.03% F.S.±1digit
- Measuring and display DCV/DCA/W/KW/WH/KWH
- Programmable rate 0 to 99999 digit(rate), 0 to 999999999 digit(totalizer)
- Four alarm function (optional)
- 16 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

## 1.MODEL:MM2D-DT

NO	DCV Input	NO	DCA Input	NO	Alarm output	NO	Analog output	NO	RS-485 output	NO	Aux. Power
1	0~10V	1	0~50mV(SHUNT)	N	None	0	None	N	None	A	AC/DC18~60V
2	0~20V	2	0~200mA	Y	YES	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
3	0~50V	3	0~2A	•YES=Four alarm		2	DC0~10V	•Modbus mode		•Less 4VA for AC/DC input	
4	0~100V	4	0~5A	•Relay contact(AC250V-5A, DC30V-7A)		3	•DC4~20mA	•256 nodes on bus			
5	0~300V	5	0~10A			9	SPECIFIED				
9	SPECIFIED	9	SPECIFIED			•Two-wire transmitter					

## 2.SPECIFICATION

- Measuring accuracy : 0.03% F.S.±1 digit(DCV)  
(23±5°C) 0.05% F.S.±1 digit(DCA/W/KW/WH/KWH)
- Sampling time : 10 cycles/sec.
- Readout range : 0~99999 digit adjustable(rate)  
0~999999999 digit adjustable(totalizer)
- Alarm delay time : 0~99.9 second adjustable
- Alarm action : HI or Lo adjustable
- Relay contact output : AC 250V-5A, DC 30V-7A
- Analog output resolution : 16 bit DAC
- Response time : < 250ms(0~90%)
- Output drive capability : < 10mA for voltage mode  
< 10V for current mode  
< [(V+)-7.5V]/20mA for two-wire mode  
(Exciing DC10~36V)
- 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
- Temp. coefficient : 30ppm/°C (0~50°C)
- Display : Red high efficiency LEDs high 10.18mm(0.4")
- Parameter setting : Touch keys
- Memory mode : Non-volatile E<sup>2</sup> PROM memory
- Dielectric strength : 2KVac/1 min. (input1/output/power)  
1.5KVac/1 min.(input2/output/power)
- 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

