

MICROPROCESS DUAL ANALOG INPUT (MATH FUNCTION) PANEL CONTROLLER METER

MODEL MM2D-D



■ FEATURES

- Accuracy 0.03% F.S.±1digit
- Dual input measuring and display DCA/DCV/Potentiometer/Transmitter/Pt-100/Load Cell/etc.....
- Dual input math function A+B/A-B/Ax/B/A/B
- Programmable rate -19999~99999 digit
- Four alarm function (optional)
- 16 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

1. MODEL: MM2D-D □ □ □ □ - □ □ □ □

| NO | Input Type | NO | DCV | NO | DCA | NO | Transmitter | NO | Pt-100 | NO | Load Cell | NO | Alarm | NO | Analog output | NO | RS-485 | NO | Aux. Power |
|----|---------------|----|-----------|----|-----------|----|-----------------------|----|------------------------|----|-------------------------|-----------------|-------------------------------------|----|---------------|--------------|-------------------|----|---------------------------|
| A | DC | 11 | 0~50mV | 22 | 0~200uA | 41 | DC4~20mA | 51 | -50.00~+50.00°C | 61 | 2mV/V | N | None | 0 | None | N | None | A | AC/DC18~60V |
| D | Potentiometer | 12 | 0~5V | 24 | 0~20mA | 42 | DC1~5V | 52 | -100.0~+100.0°C | 62 | 3mV/V | Y | YES | 1 | DC4~20mA | Y | RS-485 | B | AC/DC90~260V |
| E | Transmitter | 13 | 0~10V | 25 | 0~200mA | 43 | DC4~20mA | 53 | -200.0~+400.0°C | 69 | SPECIFIED | •YES-Four alarm | •Relay contact (AC250V-5A DC30V-7A) | 2 | DC0~10V | •Modbus mode | •256 nodes on bus | | •Less 4VA for AC/DC input |
| F | Pt-100(RTD) | 15 | 0~50V | 26 | 0~2A | 44 | DC1~5V | 54 | -200.0~+850.0°C | | •Exciting DC24V (<50mA) | | | 3 | •DC4~20mA | | | | |
| G | Thermocouple | 16 | 0~100V | 27 | 0~5A | 49 | SPECIFIED | 59 | SPECIFIED | | | | | 9 | SPECIFIED | | | | |
| H | Load Cell | 17 | 0~600V | 28 | 0~10A | | •A3/A4 exciting DC24V | | •Three wire connection | | | | | | | | | | |
| O | SPECIFIED | 19 | SPECIFIED | 29 | SPECIFIED | | | | | | | | | | | | | | |

•Only DC/Transmitter E41/E42:input1 & input2 isolating

2. SPECIFICATION

- Measuring accuracy : 0.03% F.S.±1 digit (channel A) (23±5°C) 0.05% F.S.±1 digit (channel B)
- Sampling time : 10 cycles/sec.
- Readout range : -19999~99999 digit adjustable
- 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 Exciting 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 E² PROM memory
- Dielectric strength : 2KVvac/1 min. (input1/output/power) 1.5KVvac/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

