

PM438, 3-1/2 LCD Digital Panel Meter

1. FEATURES

200mV full scale input sensitivity
Single 9V battery operation
Decimal point selectable
13mm LCD figure height
Automatic polarity indication
Guaranteed zero reading for 0 Volts input
High input impedance

2. SPECIFICATIONS

Max input: 199.9mV
Max display: 1999 counts with automatic polarity indication
Indication method: LCD display
Measuring method: Dual slope integration A/D converter system
Over range indication: 1 shown in the display
Reading rate time: 2-3 readings per sec.
Input impedance: $\leq 10\text{Mohm}$
Accuracy: $\pm 0.5\%$ ($23\pm 5^\circ\text{C}$ < 80%RH)
Power dissipation: 1mA
Decimal point: Selectable with short circuit
Supply voltage: 8-12V
Size: 68 x 44mm

3. PANEL HOLE

4. OPERATION

If you need add proper voltage dividers (RA, RB are not included) and decimal point wire jumper:

Range	Proper voltage divider	Decimal point
DC 200mV	RA=0ohm, RB=10Mohm	P3
DC 2V	RA=10Mohm, RB=1Mohm	P1
DC 20V	RA=10Mohm, RB=100Kohm	P2
DC 200V	RA=10Mohm, RB=10Kohm	P3
DC 500V	RA=10Mohm, RB=1Kohm	-
DC 2mA	RA=0ohm, RB=100ohm	P1
DC 20mA	RA=0ohm, RB=10ohm	P2
DC 200A	RA=0ohm, RB=1ohm	P3
DC 2A	RA=0ohm, RB=0.1ohm	P1

Note : RA & RB must be more than 1/4W 0.5% metal film resistors or best and higher

B, Connect an 8-12V power supply to panel meter

C, For ranges other than 200mV, input accurate 1/2 X max. Voltage generated by calibrator and carefully adjust semi fixed resistor 201 to have the same reading in LCD

D, Connect the input voltage or current to be measured to IN and COM, the input voltage should be DC only

E, Connect the power to "+" and "-" polarity