3-1/2D LCD Digital Panel Meter PM228

1. FEATURES

200mV full scale input sensitivity

Can be used as A version (9v Independent power supply
application) or as B version (5V common ground power
supply application)

Decimal point selectable

13mm figure height

Automatic zero reading for 0 volt input

High input impedance(>100MΩ)

Easy Bezel fixing Method

2. APPLICATIONS

Voltmeter	Current Meter
Thermometer	Capacitance Meter
PH Meter	Lux Meter
dB Meter	LCR Meter
Watt Meter	Other industrial & domestic uses.

3. SPECIFICATIONS

Maximum Input:	199.9mV DC
Maximum Display:	1999 counts(3-1/2 Digits)with Automatic polarity indication
Indication Method:	LCD Display
Measuring Method:	Dual-Slope Integration A-D Converter system
Overrange Indication:	"1" shown in the display
Reading rate time:	2-3 readings per second.
Input Impedance:	>100MΩ
Accuracy:	$\pm 0.5\%(23°\ \pm 5°C,<80\%RH)$
Power Dissipation:	1mA DC
Decimal Points:	Selectable with wire jumper
Short citcuit Points:	Refer to point 4
Supply Voltage:	9V (independent, in A version), or 5V (common ground, in B version)
Size:	68mmx44mm

4.SELECTION FOR A/B VERSIONS:

    a) For A version (9V independent power application), shortcircuit J2, leave the J1, J3 open

    b) For B version (5V independent power application), shortcircuit J1 & J3, leave J2 open

5.OPERATION:

    Make the A/B version selection (as point 4 above) **first.**

    a)If needed, add proper voltage dividers(not included)

    And decimal point wire jumper

Max. Voltage to be measured	Proper Voltage Divider	Decimal Point Fixing Method
200mV		Shortcircuit P1 on And P2,P3 off
20V	Disconnect wire Jumper in RB RA=100KΩ RB=9.9MΩ	Shortcircuit P2 on And P1,P3 off
200V	Disconnect wire Jumper in RB RA=10KΩ RB=9.99MΩ	Shortcircuit P1 on And P2,P3 off
500V	Disconnect wire Jumper in RB RA=1KΩ RB=9.999MΩ	

    RA and RB are 1/2W 0.5% Metal Film Resistors.

    b) Connect 9V independent DC power supply (in A version),

    Or 5V common ground power supply (in B version) to panel meter, pay attention to the proper polarity.

    c)For range other than 200mV, input accurate 1/2 x Max. Voltage generated by calibrator (e.g.100.0Vfor 200.0V range) and carefully adjust the semi-fixed resistor R4 to have same reading in LCD.

    d) Connect the input voltage to be measured to Vin and GD. The input voltage should be DC only.