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(>100M Ω)

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:	>100M Ω
Accuracy:	$\pm0.5\%(23° \pm5℃,<80\%RH)$
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=100K Ω RB=9.9M Ω	Shortcircuit P2 on And P1,P3 off
200V	Disconnect wire Jumper in RB RA=10K Ω RB=9.99M Ω	Shortcircuit P1 on And P2,P3 off
500V	Disconnect wire Jumper in RB RA=1K Ω RB=9.999M Ω	

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.