4-1/2D LCD Digital Panel Meter PM-328

1. FEATURES

200.0mV Full Scale input sensitivity

Single 9V DC operation (independent 7-12VDC)

Decimal Points selectable 11mm LCD figure height

Automatic Polarity Indication

High input impedance (>100 Mohms)

2. APPLICATIONS

Voltmeter

Current Meter

Thermometer

Capacitance Meter

PH Meter

Lux Meter

dB Meter Watt Meter LCR Meter

Other Industrial &

Domestic Uses

3. SPECIFICATIONS

Maximum Input:

199.99mV DC

Maximum Display:

19999 counts (4-1/2 Digit) with

automatic polarity indication

Indication Method:

LCD display

Measuring Method:

Dual-Slope Integration A/D

converter system

Overrange Indication: "1" shown in the display

Input Impedance:

>100 Mohms

Accuracy:

+-0.05% (23°+-5°C, <80% RH)

Power Dissipation:

0.5mA DC

Decimal Points:

Selectable with wire jumpers

Supply Voltage:

INDEPENDENT 7-12V DC

Size:

68mmx44mm

4. OPERATION

A) If needed, add proper voltage dividers (not included) and decimal point wire jumpers:

Max. Voltage to	Proper Voltage	Decimal
be measured	Divider	Point
200mV	-	Shortcircuit P2
2V	Disconnect wire jumper in RB. RB=9 Mohms RA=1 Mohms	Shortcircuit P4
20V	Disconnect wire jumper in RB. RB=9.9 Mohms RA=100 Kohms	Shortcircuit P3
200V	Disconnect wire Jumper in RB. RB=9.99 Mohms RA=10 Kohms	Shortcircuit P2
500V	Disconnect wire Jumper in RB. RB=9.999Mohms RA=1 Kohms	Shortcircuit P1

RA and RB are 1/2W 0.05% Metal Film Resistors.

- B) Connect an independent 7-12V DC power supply to Panel Meter.
- C) For ranges other than 200mV, input an accurate 1/2 x Max. Voltage generated by an calibrator (e.g. 100.0V for 200.0V range) and carefully adjust the Semifixed Resistor R1 to have the same reading in LCD.
- D) Connect the input voltage to be measured to Vin.
 The input voltage should be DC only.

5. WIRING DIAGRAM

