3-1/2D LCD Digital Penal Meter PM128/PM-188

1. FEATURES

200mV full scale input sensitivity

Single 9V DC operation

Decimal point selectable

13mm figure height

Automatic Polarity indication

Guaranteed 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: Reading rate time:

"1" shown in the display 2-3 readings per second.

Input Impedance:

 $>100M\Omega$

Accuracy:

±0.5% (23°±5°C, < 80%RH)

Power Dissipation:

1 mA DC

Decimal Points:

Selectable with wire jumper

Supply Voltage:

7-11V DC

Size:

68mm x 44mm

4. OPERATION

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

Max. Voltage to be measaured	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	

Shortcircuit N on to enable polarity sign function or shortcircuit N off to disable polarity sign function. RA and RB are 1/2W 0.5% Metal Film Resistors.

- b) Connectgion 7-11 V DC power supply to panel metel, pay attention to the proper polarity.
- c) For range other than 200 mV, input accurate 1/2 x Max. Voltage generated by calibrator (e.g. 100.0V for 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.