

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

Please Note

The supply voltage and voltage to be measured MUST have separated grounds.

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

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|-----------------------|---|
| 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: | ±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 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	

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.