

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 | LCR Meter |
| Watt Meter | Other Industrial & Domestic Uses |

3. SPECIFICATIONS

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|-----------------------|---|
| 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 be measured	Proper Voltage Divider	Decimal 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

