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4 ½ LCD Digital Panel Meter PM-328

1. Features:

- 200mV full scale input sensitivity
- Single 9VDC operation (independent 7 to 12VDC)
- Decimal points selectable
- 11mm LCD figure height
- Automatic polarity indication
- High input impedance (>100MΩ)

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: 199.99mVDC
- Maximum display: 19999 counts (4 ½ digits) with automatic polarity indication
- Indication method: LCD display
- Measuring method: dual-slope integration A-D converter system
- Over-range indication: "1" shown in the display
- Input impedance: >100MΩ
- Accuracy: +/- 0.05% (23⁰ +/-5⁰C, <80% RH)
- Power dissipation: 0.5mA DC
- Decimal points: selectable with wire jumpers
- Supply voltage: independent 7 – 12VDC
- Size: 68mm x 44mm

4. Operation:

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

Maximum Voltage to be Measured	Proper Voltage Divider	Decimal Point
200mV	---	Short-circuit P2
2V	Disconnect wire jumper in RB, RB=9MΩ RA=1MΩ	Short-circuit P4
20V	Disconnect wire jumper in RB, RB=9.9MΩ RA=100kΩ	Short-circuit P3
200V	Disconnect wire jumper in RB, RB=9.99MΩ RA=10kΩ	Short-circuit P2
500V	Disconnect wire jumper in RB, RB=9.999MΩ RA=1kΩ	Short-circuit P1

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

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

5. Wiring Diagram:

