

3-1/2D LED Digital Penal Meter

PM129A (independent power supply)

PM129B (common ground power supply)

1. FEATURES

200mV full scale input sensitivity
 Single DC operation
 Decimal point selectable
 0.56" figure height
 Automatic Polarity indication
 Guaranteed zero reading for 0 volt input
 High input impedance (>100M Ω)
 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: LED 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: >100M Ω
 Accuracy: $\pm 0.5\%$ (23 $\pm 5^\circ\text{C}$, < 80%RH)
 Power Dissipation: 60 mA DC
 Decimal Points: Selectable with wire jumper
 Supply Voltage: PM129A: 7-11V DC
 PM129B: 5V DC
 Size: 68mm x 44mm

4. OPERATION:

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

Range	Proper Voltage Divider		Decimal Point Fixing Method	
	PM129A	PM129B	PM129A	PM129B
200mV	-		Shortcircuit P3	Shortcircuit P3-P0
20V	Disconnect wire jumper in RA RA=9.9M Ω RB=100K Ω	Disconnect wire jumper in RB, RA=100K Ω RB=9.9M Ω	Shortcircuit P2	Shortcircuit P2-P0
200V	Disconnect wire jumper in RA, RA=9.99M Ω RB=10K Ω	Disconnect wire jumper in RB, RA=10K Ω RB=9.99M Ω	Shortcircuit P3	Shortcircuit P3-P0
500V	Disconnect wire jumper in RA, RA=9.999M Ω RB=1K Ω	Disconnect wire jumper in RB, RA=1K Ω RB=9.999M Ω		

RA and RB are 1/2W 0.5% Metal Film Resistors.

- Connect 7-11 V DC (PM129A) or 5V DC (PM129B) power supply to panel meter and pay attention to the proper polarity.
- 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 to have same reading in LED.
- Connect the input voltage to be measured to Vin and -Vin/GND. The input voltage should be DC only.