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 (>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:	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:	>100MΩ
Accuracy:	±0.5% (23°±5°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

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

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

b) Connect 7-11 V DC (PM129A) or 5V DC (PM129B) power supply to panel meter and 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 to have same reading in LED.

d) Connect the input voltage to be measured to Vin and -Vin/GND. The input voltage should be DC only.