

3-1/2D LCD Digital Panel Meter **PM128/PM-188/HY5035**

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(>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: LCD Display
Measuring Method: Dual-Slope Integration A-D converter system
Over range Indication: "1" shown in the display
Reading rate time: 2-3 readings per second
Input Impedance: >100 M Ω
Accuracy: $\pm 0.5\%$ (23 ± 5 degree,<80 RH)
Power Dissipation: 1 MA DC
Decimal points: Selectable with wire jumper
Supply Voltage: 7-11V DC
Size: 68mm \times 44mm

4. OPERATION

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

Max. Voltage to be measured	Proper Voltage	Decimal Point Fixing Method
200mv	-	Short circuit P1 on and P2,P3 off
20V	Disconnect wire jumper in RB, RA=100KΩ RB=9.9MΩ	Short circuit P2 on and P1, P3 off
200V	Disconnect wire Jumper in RB, RA=10KΩ RB=9.99MΩ	Short circuit P1 on and P2,P3 off
500V	Disconnect wire jumper in RB, RA=1KΩ RB=9.999MΩ	

B) Connection 7-11 V DC power supply to panel meter, pay attention to the proper polarity.

C) For range other than 200mv, input accurate 1/2x 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.