

# 3-1/2 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(>100MΩ)  
 Easy Bezel fixing Method

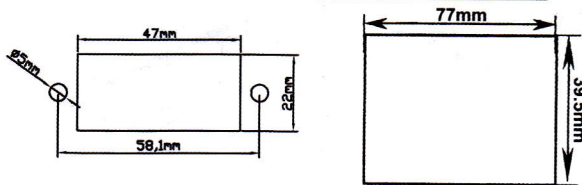
## 2. APPLICATIONS

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:	LCD 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:	1 mA DC
Decimal points:	Selectable with wire jumper
Supply Voltage:	7-11V DC
Body Dimension:	68mm × 44mm (PM128/PM-188) 80mm × 42.7mm (HY5035)

## 4. INSTALLATION DIMENSION SKETCH



PM128/PM-188

HY5035

## 5. OPERATION

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

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

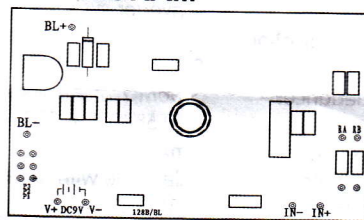
RA and Rb are 1/2W 0.5% Metal Film Resistors.

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

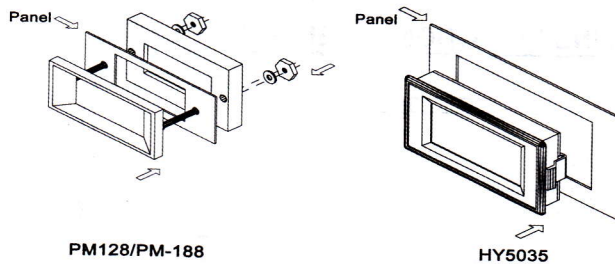
C) For range other than 200 mV, input accurate 1/2x Max. Voltage generated by calibrator(e.g.100.0V for 200.0V range)and carefully adjust the semi-fixed resistor R4 to have same reading in LCD.

D) Connect the input voltage to be measured to Vin and GD. The input voltage should be DC only.

## 6. WIRING DIAGRAM



## 7. INSTALLATION INSTRUCTION



PM128/PM-188

HY5035