



**PRECISION 3 DIGIT VOLT/AMP PANEL METER
WITH ADJUSTABLE ZERO OFFSET**



FEATURES:

- Adjustable Zero Offset
- Run/Hold
- Easy to read 0.56" LED Display
- High Input Impedance
- Simple Snap-in Installation
- Built-in Bezel

A precision digital meter featuring an adjustable input offset. A zero (000) display can be obtained while the input voltage or current is set at a level above or below zero. Ideal for use with transducer and bridge circuits. The DPM5130B can also be used as a conventional 3 digit meter for voltage or current measurements.

ELECTRICAL SPECIFICATIONS:

Basic DC Input Range: -99mV to +999mV
(See chart below for range expansion)

Accuracy: $\pm 0.2\% \pm 1$ count

Zero Offset Adjust: -90mV to +150mVDC (See Note 2)

Input Impedance: >100M Ohms (Basic module)

Power Supply: 5VDC @ <150mVDC

Overrange Indication: "EEE" >+999mVDC
"... " <-99mVDC

Conversion Rate: Approx. 4 times/second

Temperature Coefficient: <100ppm

Operating Temperature Range: 0 TO +50°C

Operating Humidity: Up to 85%, noncondensing

Weight: Approx. 1.4 oz. (40g)

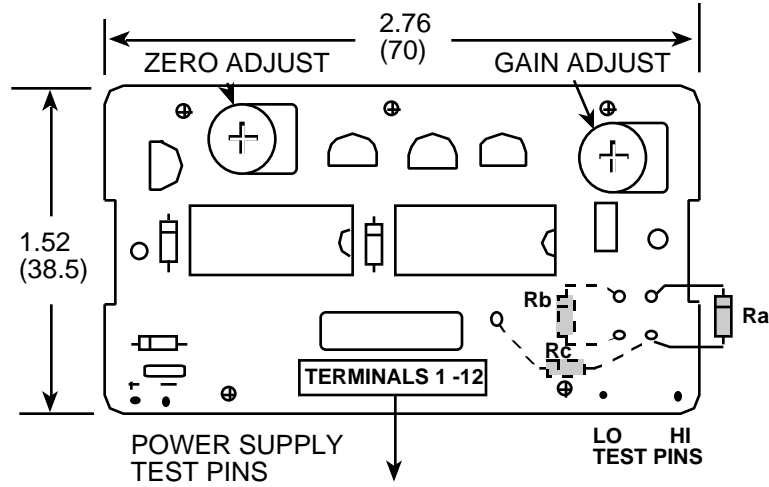
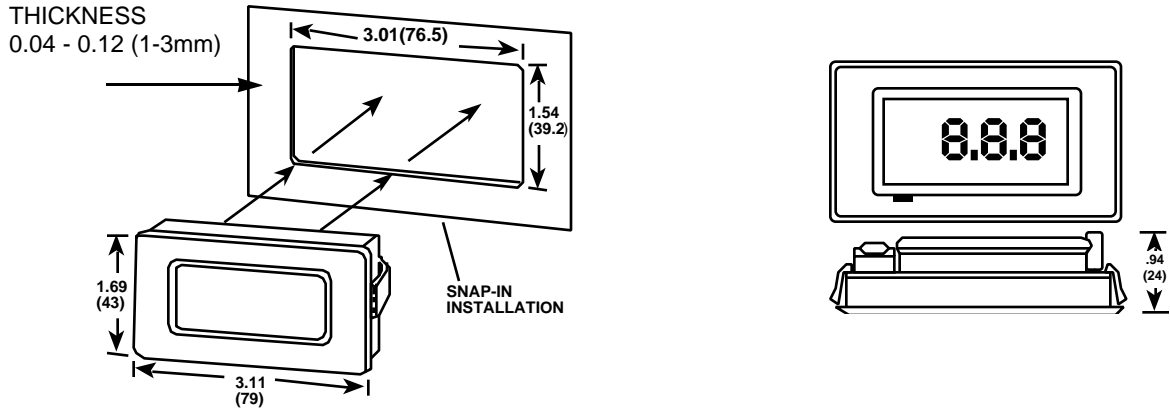
Voltage Range	Ra	Rb	Decimal Point
-.99 to +9.99VDC	900K	100K	2
-9.9 to +99.9 VDC	990K	10K	1
-99 to +999VDC	999K	1K	NC

Current Range	Rc	Decimal Point
99.9mA	10 Ohms@1W	1
999mA	1 Ohm@2W	NC
9.99A	0.1 Ohm@20W	2

1-Ra, Rb and Rc resistor tolerances must be $\pm 0.5\%$ or better.
 2-Ra in the basic measuring range (-99 to +999mVDC) may be a 1M Ohm carbon film resistor.



DPM5130B



TERMINAL CONNECTIONS		
1-Power Supply (+)	5-Decimal Point 2	9-No function
2-Power Supply (-)	6-No Function 1	10-HOLD/RUN
3-Decimal Point Common	7-No Function	11-Input Lo
4-Decimal Point 1	8-No function	12-Input Hi

NOTES:

1. CALIBRATION: Apply zero volts (short circuit across Input Hi/Lo Test Pins or Terminals #11 and #12. Adjust ZERO ADJUST trimpot for 000 display readout. Remove short circuit. Apply 900mVDC across Input Hi/Lo Test Pins or Terminals #11 and #12 and adjust GAIN ADJUST trimpot for 900 readout.

2. OFFSET VOLTAGE ADJUSTMENT: (Example) A zero (000) display readout may be obtained with input voltages set between -90mVDC and +150mVDC (basic module). Apply desired \pm offset voltage between Input Hi/Lo Test Pins or Terminals #11 and #12

and adjust the ZERO ADJUST trimpot for 000 display.

3. HOLD/RUN OPERATION: To capture the last reading for continuous display. HOLD Terminal #10 is connected to Terminal #1 (+5VDC). Input sampling continues while the display data is latched to the last reading. Continuous display change is restored by allowing HOLD Terminal #10 to float or by returning it to power supply minus (.).

