

TEXMATE



PM-Series



PM-35U

5 Optional DC Input Ranges
from 200mV to 1200V
3 1/2 DIGIT with 0.3" LEDs
In a Slim Bezel Case

A Low Cost Easy To Use General Purpose Meter.

General Features

The PM-35U Digital Panel Meter is an economical, high performance instrument incorporating a number of features usually found only on more expensive meters. Utilizing the dual slope method of integration, the unit measures differential and single-ended DC voltages over five user selectable ranges from 199.9mV to 1200V full scale.

Maximum resolution is 100 μ V over \pm 1999 counts. Provision is made for user connections to provide various operating modes, including a ratiometric voltmeter, current meter, ratiometric ohmmeter, and a temperature difference meter.

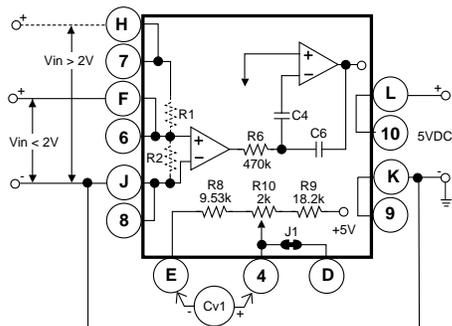
The true differential input capability of the Model PM-35U is particularly useful for making accurate measurements of very small signals in the presence of much larger common mode signals.

Because of its high noise immunity, it is also ideal for measuring various balanced transducers and bridge inputs. When measuring bridge circuits, long term drift of the excitation voltage can be compensated for by using the ratiometric voltmeter mode of operation.

Typical Application Connections

SINGLE-ENDED METER- 200mV Range, >2V Range 200mV Range: 1) Change R6 from 470k to 47k, \pm 5%; 2) Change R9 from 18.2k to 26.7k, \pm 1%; 3) Remove R8 (9.53k) and short with a jumper; 4) It is recommended that C4, C5 and C7 be changed to 0.22mF; 5) Adjust R10 until CV1=100mV.

>2V Range: Install R1 and R2 as specified under section titled Useful Tables.



View more application connections and connection instructions on page 3.

Compatibility

The PM-35U is shipped in a standard Slim Bezel case. The Slim Bezel case is compatible with the CM, SM, TM, & SP Series of meters. The PM-35U can be ordered in End Mount cases for twin mounting or combinations of multiple center mount cases and two end mount cases for stack mounting.

SLIM



BEZEL

Specifications

- Input Configuration:**..... True differential and single-ended
Full Scale Ranges: \pm 199.9mVDC
 \pm 1.999VDC (standard)
 \pm 19.99VDC
 \pm 199.9VDC
 \pm 1200VDC
- Input Impedance:** Exceeds 1000M Ω on 200mV and 2V ranges; 10M Ω on all other ranges
- Input Protection:**..... \pm 250VDC or 175VAC maximum on 200mV and 2V ranges; \pm 1200VDC or 850VAC on all other ranges
- Accuracy:** \pm (0.1% of reading + 1 digit)
- Temperature Coefficient:** ..5PPM/ $^{\circ}$ C in ratiometric operation; 80 to 100PPM/ $^{\circ}$ C using internal reference on 200mV and 2V ranges
- Warm Up Time:**2 minutes to specified accuracy
- Conversion Rate:**3 readings per second nominal
- Display:**0.3" LED
- Decimal Selection:**User programmable to 4 positions
- Overrange Indication:** ..When input exceeds full scale on any range being used, most significant "1" digit & polarity symbol are displayed with all other digits blank
- Power Requirements:**.....+4.5 to +5.5VDC at 200mA max.
- Operating Temperature:** $^{\circ}$ to +60 $^{\circ}$ C
- Storage Temperature:**.....-20 $^{\circ}$ to +70 $^{\circ}$ C
- Relative Humidity**95% (non-condensing)
- Case Dimensions:** Bezel 2.76" x 1.17" (69.75 x 29.7mm)
Depth behind Bezel 3.32" (84mm) plus 0.68" (17.27mm) for connector.
- Weight:**88 gms (3.1 oz)