



SM-Series



SM-35X

Multirange Panel Meter
3.5 Digit 0.48" LCD
In a Slim Bezel Case

An Economical, Multirange 2V, 20V & 200V DC Easily-Scaled 5V DC Powered Meter with a .48" LCD Display and Screw terminal or Edge Connector Inputs.

General Features

The SM-35X is one of Texmate's new SM-series meter range. This range, which includes meters with LCD and LED displays, offers many unique features designed to simplify installation, calibration and scaling. All SM-35 and SM-35X meters are pin-compatible, which enables LED and LCD meters to be interchanged within the same panel without necessitating wiring or panel cutout changes.

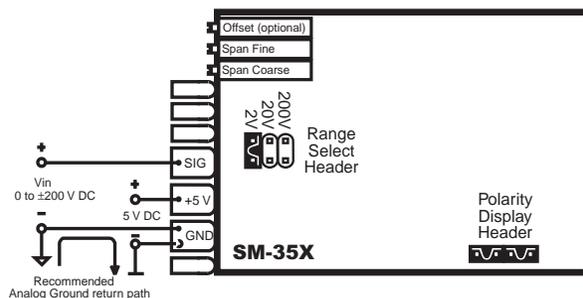
All SM-series meters are 5 V DC powered with bipolar single-ended inputs. The meters feature Display Hold, Display Test and Auto-Polarity indication. The polarity indication may be disabled or reversed by repositioning jumper clips on internal header pins. The SM-series of meters are designed to be user scalable to almost any engineering unit of readout. On-site scaling and recalibration is facilitated by multi-turn potentiometers that provide continuous fine and coarse adjustment within each of the three header-programmable full scale ranges.

The three ranges provided with the SM-35X (LCD display) and the SM-35 (LED display) are 2 V, 20 V, and 200 V full scale and both of these meters can be ordered with an optional zero-off-set adjustment potentiometer.

The SM-35XMV (LCD display) and SM-35MV (LED display) are specially designed for low voltage inputs and provide three header-programmable input ranges of 20 mV, 200 mV, and 200 V full scale. Both the SM-35XMV and SM-35MV have zero-off-set adjustment potentiometers as a standard feature and a unique constant current power supply that eliminates any ground loop noise.

Typical Application Connections

DC VOLTMETER



Compatibility

The SM-Series is shipped in a standard Slim Bezel case. The Slim Bezel case is compatible with the CM, SP, PM, & TM Series of meters. The SM-Series 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:**Single-ended, with optional provision to offset the zero of the reading displayed
- Input Impedance:**1M Ω minimum
- Full Scale Ranges:** ± 2 V DC (Standard Range) ± 20 V DC ± 200 V DC (All ranges are header selectable)
- A/D Converter:**12 Bit Dual Slope
- Accuracy:** $\pm(0.05\%$ of reading + 2 digits)
- Temp Coefficient:**100ppm/ $^{\circ}$ C typical
- Warmup Time:**One minute to specified accuracy
- Conversion Rate:**3 readings per second
- Display:**0.48" Liquid Crystal Display (LCD); "Display Hold" & Dummy Zero
- Decimal Selection:**User programmable to 3 positions
- Polarity:**Automatically displays both "+" or "-" signs; header programmable polarity disable and reversal
- Over-range Indication:**When input exceeds full scale on any range being used, the most significant "1" digit and "+" or "-" symbol is displayed with all other active digits blanked
- Power Supply:**+4.5 to +5.5V DC at 5mA
- Operating Temperature:**-20 $^{\circ}$ C to +60 $^{\circ}$ C
- Storage Temperature:**-20 $^{\circ}$ C to +70 $^{\circ}$ C
- Relative Humidity:**95% (non-condensing)
- Case Dimensions:**Bezel (2.755"W x 1.170"H) 69.68mmW x 29.72mmH Depth behind bezel (3.315") 84.2mm Plus (0.685") 17.4mm for connector
- Weight:**88 gms (3.1 oz)
143 gms (5 oz) when packed