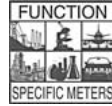


# TEXMATE



SM-Series



## SM-35

**Multirange Panel Meter  
3 1/5 Digit 0.56" LED  
in a Slim Bezel Case**

**An Economical, Multirange 2V, 20V & 200V DC Easily-Scaled 5V DC Powered Meter with a .56" LED Display and Screw terminal or Edge Connector Inputs.**

### General Features

The SM-Series meters have LCD or LED displays and offer 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.

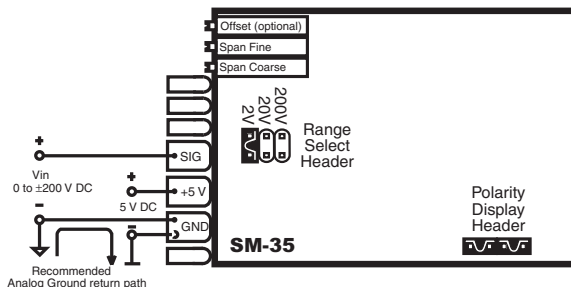
All SM-Series meters are powered with bipolar single-ended inputs. The meters feature Display Hold, Display Test and Auto-Polarity indication. The polarity indication may be disabled or reversed by repositioning jumper clips on internal header pins. The SM-series of meters are designed to be user scalable 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-35 (LED display) and SM-35X (LCD display) are 2V, 20V and 200V full scale and both of these meters can be ordered with an optional zero-offset adjustment potentiometer.

The SM-35MV (LED display) and SM-35XMV (LCD display) are specially designed for low voltage inputs and provide three header-programmable input ranges of 20mV, 200mV and 2V full scale. Both the SM-35MV and SM-35XMV have zero-offset 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 $\Omega$  minimum

**Full Scale Ranges:** ..... $\pm$ 2VDC (Meters shipped with 2V range selected)  $\pm$ 20VDC  $\pm$ 200VDC All ranges are header programmable

**A/D Converter:** .....12 Bit Dual Slope

**Accuracy:** ..... $\pm$ (0.05% of reading + 2 digits)

**Temperature Coefficient:** 100ppm/ $^{\circ}$ C typical

**Warmup Time:** .....One minute to specified accuracy

**Conversion Rate:** .....3 readings per second

**Display:**.....0.56" High efficiency LED's "Display Hold" feature

**Decimal Selection:**.....User programmable to 3 positions

**Over-range Indication:** ...When input exceeds full scale on any range being used, most significant "1" digit and polarity symbol are displayed with all other digits blank

**Power Supply:**.....+4.5 to +5.5V DC at 200mA

**Operating Temperature:** ..  $0^{\circ}$ C 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)  
143 gms (5 oz) when packed