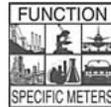


SM-Series



SM-35MV

Easily-Scaled Panel Meter 3 1/2 Digit 0.56" LED in a Slim Bezel Case

A Multirange, Easily-Scaled Meter with Screw Terminal and Edge Connector Inputs.

General Features

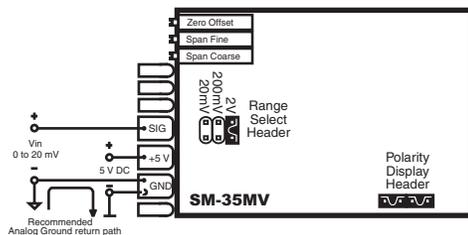
The SM-35MV is one of Texmate's new SM-series meter range. This range, which includes meters with LCD and LED displays, offers many unique features designed to simplify installation, calibration and scaling. All SM-series meters are pin-compatible. This allows different versions of SM meters to be interchanged within the same application 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.

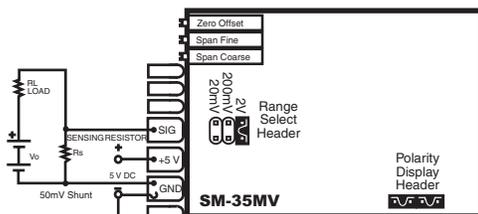
The SM-35MV (LED display) and SM-35XMV (LCD display) are specially designed for low voltage inputs and provide three header-programmable input ranges of 20 mV, 200 mV, and 2 V full scale. Both the SM-35XMV and SM-35MV have zero-offset adjustment potentiometers as a standard feature. The three ranges 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-offset adjustment potentiometer for use in zero-offset application (e.g. 1-5 V).

Typical Application Connections

DC VOLTMETER



DC AMMETER (Requires external shunt)



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 provision to offset the zero of the reading displayed

Input Impedance:1MΩ minimum

Full Scale Ranges:±20 mV DC ±200 mV DC ±2 V DC (Standard Range) (All ranges are header selectable)

A/D Converter:12 Bit Dual Slope

Accuracy:±(0.05% of reading + 2 digits)

Temp Coefficient:100ppm/°C typical

Warmup Time:One minute to specified accuracy

Conversion Rate:3 readings per second

Display:.....0.56" High Efficiency LED "Display Hold" feature

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

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 digits blanked.

Power Supply:.....+4.5 to +5.25V DC at 225mA

Operating Temperature: ...0°C to +50°C

Storage Temperature:-20° to +70°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