



TEXMATE

SM-35

**Multirange Panel Meter
3 1/2 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.

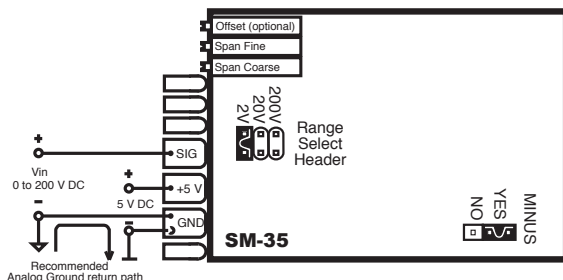
All SM-Series meters are powered with bipolar single-ended inputs. The meters feature Display Hold, Display Test and Auto-Polarity indication. The polarity indication may be disabled or reversed by repositioning jumper clips on internal header pins. The SM-series of meters are designed to be user scalable 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 Ω minimum

Full Scale Ranges: ± 2 VDC (Meters shipped with 2V range selected) ± 20 VDC ± 200 VDC 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° C to $+60^{\circ}$ C

Storage Temperature: -20° 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

SM-Series LED Displays

SM-35 3.5 digit Red LED, 2/20/200VDC, 5VDC Pwr
SM-35MV 3.5 digit Red LED, 0.02/0.2/2VDC, 5VDC Pwr

SM-Series LCD Displays

SM-35X 3.5 digit LCD, 2/20/200VDC, 5VDC Pwr

SM Case Dimensions and Panel Cutouts

The Slim Bezel Case is supplied as standard. If specified at time of ordering, any combination of Twin Mounting and Multiple Array Cases may be substituted at no additional cost. Extra cases may be ordered separately.

STANDARD SLIM BEZEL CASE

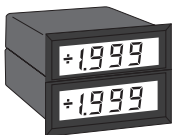


SLIM BEZEL CASE

Standard Black ABS case with matte finish bezel for single unit mounting.

Part No. **SL-CASERED** for LED's
SL-CASECLR for LCD's

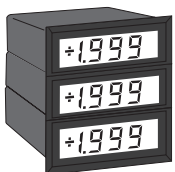
OPTIONAL TWIN MOUNTING OR MULTIPLE ARRAY CASES



END MOUNT CASE

Same styling as Slim Bezel case but with bottom edge of bezel removed. Two End Mount cases can be twin mounted in a single cutout.

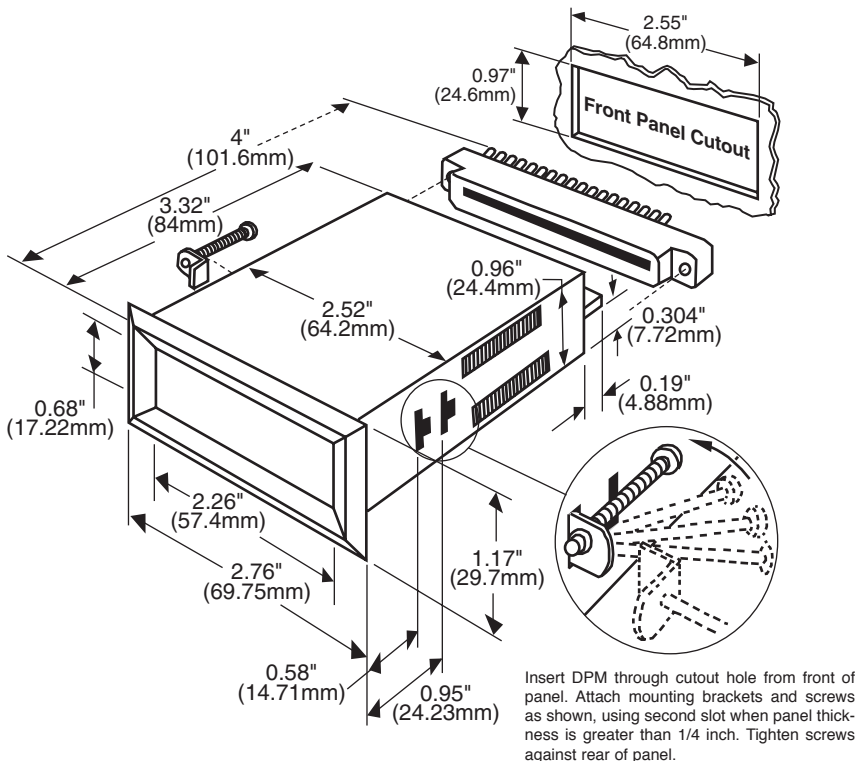
Part No. **EM-CASERED** for LED's
EM-CASECLR for LCD's



CENTER MOUNT CASE

Any number of Center Mount cases may be fitted between two End Mount cases for multiple arrays.

Part No. **CM-CASERED** for LED's
CM-CASECLR for LCD's



Ordering Information

Standard Options for this Model Number

Part Number	Description	List
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► **BASIC MODEL NUMBER** Includes plug in type screw terminals, standard display and standard power supply unless optional versions are ordered.

SM-35.....3.5 digit Red LED, 2/20/200VDC, 5VDC Pwr...

► DISPLAY

STANDARD Red LED, 0.96 inch high.

SM-GREEN ... Green LEDs, for SM-35/35MV only

Special Options and Accessories

Part Number	Description	List
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► SPECIAL OPTIONS (Specify Inputs & Req. Reading)

HD-CHANGE ... Range change from the std. input as shown in **BOLD** type ...

V0-50K Zero offset potentiometer 50k.
CB-FS35 Non-Std Range and Scale Changes
SM-FSCL SM-35 4 to 20mA Factory Scaling

► ACCESSORIES

CN-L10 Edge Connector with Solder eyelet, 10 Pin Dual
CN-PUSH/SM .. Push-On Screw Terminal Block Connector
TB-KIT Terminal Block Connector Kit (3)
SL.CASECLR .. Slim Bezel Case, Clear Faceplate w/Mtg Hrdwre
SL.CASERED .. Slim Bezel Case, Red Faceplate w/Mtg Hrdwre
CM.CASECLR . Ctr. Mount Case, Clear Faceplate w/Mtg Hardware
CM.CASERED . Ctr. Mount Case, Red Faceplate w/Mtg Hardware
EM.CASECLR . End Mount Case, Clear Faceplate w/Mtg Hrdwre
EM.CASERED . End Mount Case, Red Faceplate w/Mtg Hardware
PS-505 5V DC Regulated Power Supply, 0.5A Output ..
PS-510 5V DC Regulated Power Supply, 1A Output ...

Prices subject to change without notice.

WARRANTY

Texmate warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Texmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we have no control over the use of our products once they are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE is made beyond the repair, replacement, or refund of purchase price at the sole discretion of Texmate. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

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