



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.

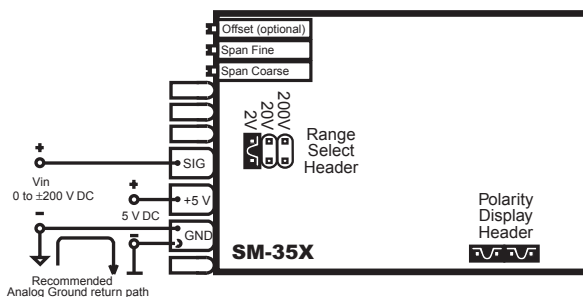
All SM-series meters are 5 V DC powered with bipolar single-ended inputs. The meters feature Display Hold, Display Test and Auto-Polarity indication. The polarity indication may be disabled or reversed by repositioning jumper clips on internal header pins. The SM-series of meters are designed to be user 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:	1MΩ 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:	±(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:	0.48" 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°C to +60°C
Storage Temperature:	-20°C 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

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

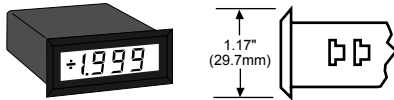
SM-Series LCD Displays

SM-35X	3.5 digit LCD, 2/20/200VDC, 5VDC Pwr
SM-35XMV	3.5 digit LCD, 0.02/0.2/2VDC, 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

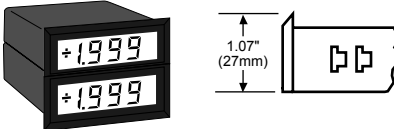


SLIM BEZEL CASE

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

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

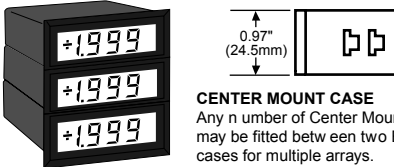
OPTIONAL TWIN MOUNTING OR MULTIPLE ARRAY CASES



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.

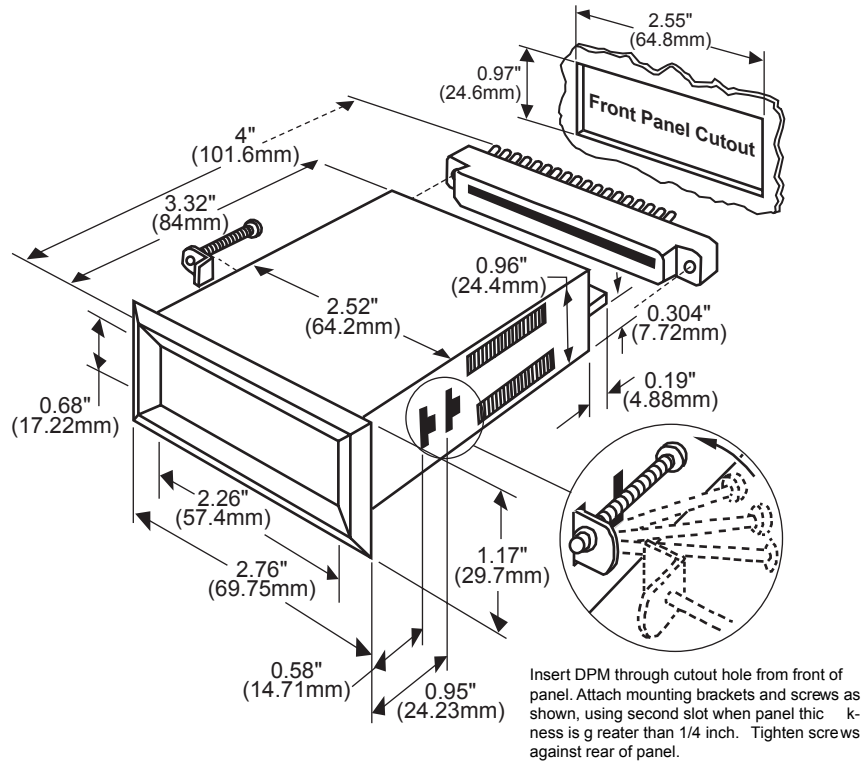
Part No. **EM-CASERED** for LED's
EM-CASECLR for LCD's



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
► BASIC MODEL NUMBER	Includes plug in type screw terminals, standard display and standard power supply unless optional versions are ordered.
SM-35X	3.5 digit LCD, 2/20/200VDC, 5VDC Pwr

Special Options and Accessories

Part Number	Description
► SPECIAL OPTIONS (Specify Inputs & Req. Reading)	
HD-CHANGE	Range change from the standard input as shown in BOLD type
V0-50K	Zero offset potentiometer 50k

CB-FS35Non-Std Range and Scale Changes for SM-35 series

► ACCESSORIES

CN-L10	Edge Connector with Solder eyelet, 10 Pin Dual
CN-PUSH/SM	Push-On Screw Terminal Block Connector
TB-KIT	Replacement Terminal Block Connector Kit (3)
SL.CASECLR	Slim Bezel Case, Clear Faceplate w/Mtg Hrdwre
CM.CASECLR	Ctr. Mount Case, Clear Faceplate w/Mtg Hrdwre
EM.CASECLR	End Mount Case, Clear Faceplate w/Mtg Hrdwre
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

Textmate 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. Textmate'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 Textmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Textmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Textmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Textmate'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 Textmate.

USER'S RESPONSIBILITY

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