



SP-Series



SP-35X

Signal Powered DC Volt Meter
3 1/2 Digit 0.48" LCD
in a Slim Bezel Case

An easy-to-use DC signal powered volt meter.

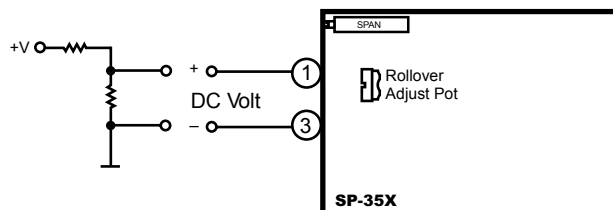
General Features

The SP-35X is a signal powered meter designed for ease-of-use. The 2 wire meter is powered from the signal, and does not require a separate power supply. This meter has Auto-Polarity indication. The polarity indication may be disabled or reversed by repositioning jumper clips on internal header pins.

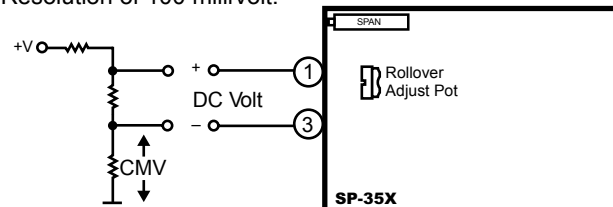
Each SP-Series meter is provided with a set of screw terminal blocks that can accept either bare wire or crimp-on 0.110" x 0.032" insulated disconnects. The SP-Series pin out is designed so that a standard PCB edge connector can also be used instead of the screw terminal blocks if desired.

Typical Application Connections

DC Volts Single-ended measurement with a Resolution of 100 millivolt.



DC Volts Differential measurement with a Resolution of 100 millivolt.



Max CMV (common mode voltage) is 50V.*

*Because CMV is common with meter ground, higher CMV inputs to a max of 1KV, require mechanical isolation of all contactable meter parts.

Compatibility

The SP-Series is shipped in a standard Slim Bezel case. The Slim Bezel case is compatible with the CM, SM, PM, & TM Series of meters. The SP-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

Input Impedance:For inputs above 100V.....50K Ω to 60K Ω
40V to 100VDC inputs 30K Ω to 50K Ω
3.5V to 40V inputs.....10K Ω to 30K Ω

Full Scale Ranges: ± 199.9 V DC. Minimum voltage that can be measured is approx. ± 3.5 V DC.
Recommended minimum input is 5V DC

A/D Converter:12 bit dual slope A/D converter

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

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

Warm Up Time:10 seconds to specified accuracy

Conversion Rate:3 readings per second

Display:.....0.48" Liquid Crystal Display (LCD)

Decimal Selection:.....None Fixed at 1XX.X

Positive Overrange:.....1 (MSD) is displayed with all other digits blank.

Negative Overrange:1 (MSD) and - sign are displayed with all other digits blank.

Power Supply:.....No power supply needed. Powered from the input signal

Operating Temperature: 0° C to $+60^{\circ}$ C

Storage Temperature:..... -20° C 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:.....143 gms (5 Oz) when packed

SP-Series, low cost meters signal power for polarity indication

SP-35X.....3.5 digit LCD, Signal Powered by DC voltage

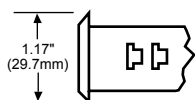
SP-35XMV.....3.5 digit LCD DCMV Input, 10-100VDC or 18-36VAC Pwr

SP-35XRMS3.5 digit LCD, VAC RMS Signal Pwr, 15.0-199.9VAC/DC

SP 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

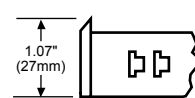
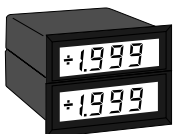


SLIM BEZEL CASE

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

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

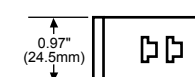
OPTIONAL TWIN MOUNTING OR MULTIPLE ARRAY CASES



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.

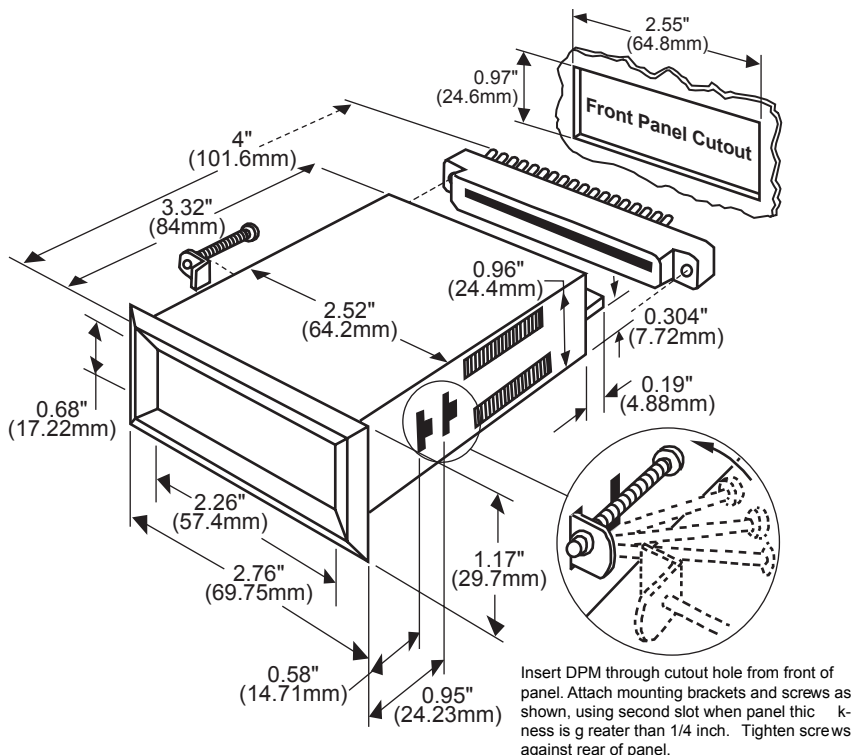
Part No. **EM-CASERED** for LED's
EM-CASECLR for LCD's



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
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► BASIC MODEL NUMBER

SP-35X3.5 digit LCD, Signal Powered by DC voltage

Special Options and Accessories

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

CB-FS35Non-Std Scale Changes, 3.5 Digit Meters

► ACCESSORIES

CN-L10Edge Connector with Solder eyelet, 10 Pin Dual

CN-PUSH/SP . .Push-on Screw Terminal Block Conn

TB-KITReplacement Terminal Block Connector Kit (3)

SL.CASECLR . .Slim Bezel Case LCD Std case w/mtg hardware

CM.CASECLR . .Slim Bezel Center Case LCD w/mtg hardware

EM.CASECLR . .Slim Bezel End Case LCD w/mtg hardware

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.

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