



## SP-35XMV

DC Ammeter for Battery  
Powered Systems  
3 1/2 Digit 0.48" LCD  
in a Slim Bezel Case

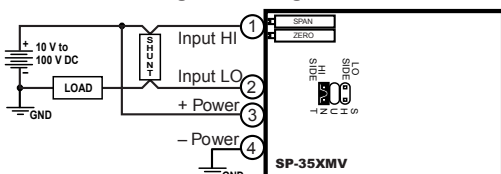
Compact DC Ammeter with Screw Terminal and Edge Connector Inputs.

### General Features

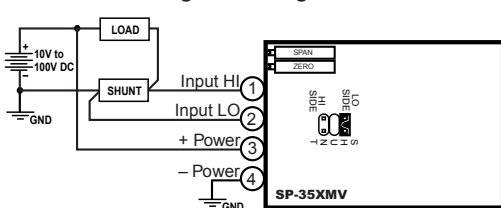
The SP-35XMV is a compact 3 1/2 digit, 4 wire DC millivolt meter. By connecting across a 50 mV/100 mV current shunt the meter can be user calibrated to read DC current. An internal header selects "HI side" or "LO side" shunt configuration. A wide range power supply allows the meter to be connected to most common battery powered systems.

### Typical Application Connections

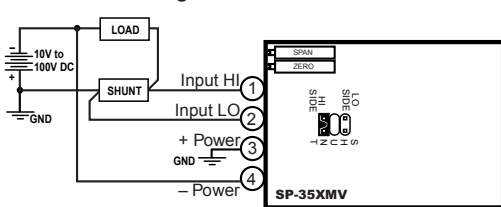
**HI Side Shunt Configuration. Negative Ground.**



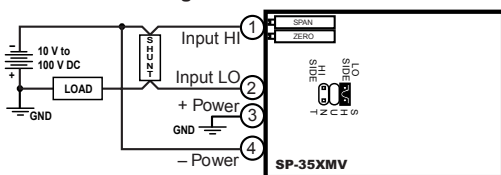
**LO Side Shunt Configuration. Negative Ground.**



**HI Side Shunt Configuration. Positive Ground.**



**LO Side Shunt Configuration. Positive Ground.**



### 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:** .....Differential. Header selectable for "HI side" or "LO side" shunt configurations.

**Input Impedance:** .....500KΩ

**Full Scale Ranges:** .....± 1999A or ±199.9mV

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

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

**Temperature Coefficient:** 100ppm/°C Typical

**Warm Up Time:** .....10 seconds to specified accuracy.

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

**Display:** .....0.48" 3 1/2 Digit Liquid Crystal Display (LCD)

**Decimal Selection:** .....User Selectable

**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 (std):** .....10 to 100V DC or 18 to 36V AC

**Operating Temperature:** .....0°C to 60°C

**Storage Temperature:** .....0°C to 70°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 for voltage and current measurement

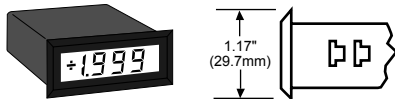
SP-35X.....3.5 digit LCD, Signal Powered by DC voltage  
SP-35XMV.....3.5 digit LCD DCMV Input, 10-100VDC or 18-36VAC Pwr

SP-35XRMS .....3.5 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

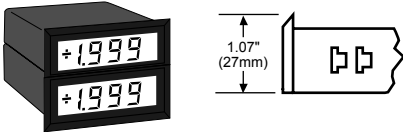


#### SLIM BEZEL CASE

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

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

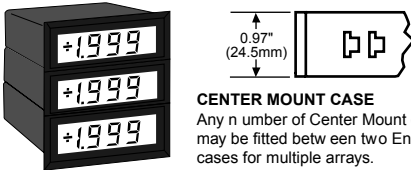
### OPTIONAL TWIN MOUNTING OR MULTIPLE ARRAY CASES



#### 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.

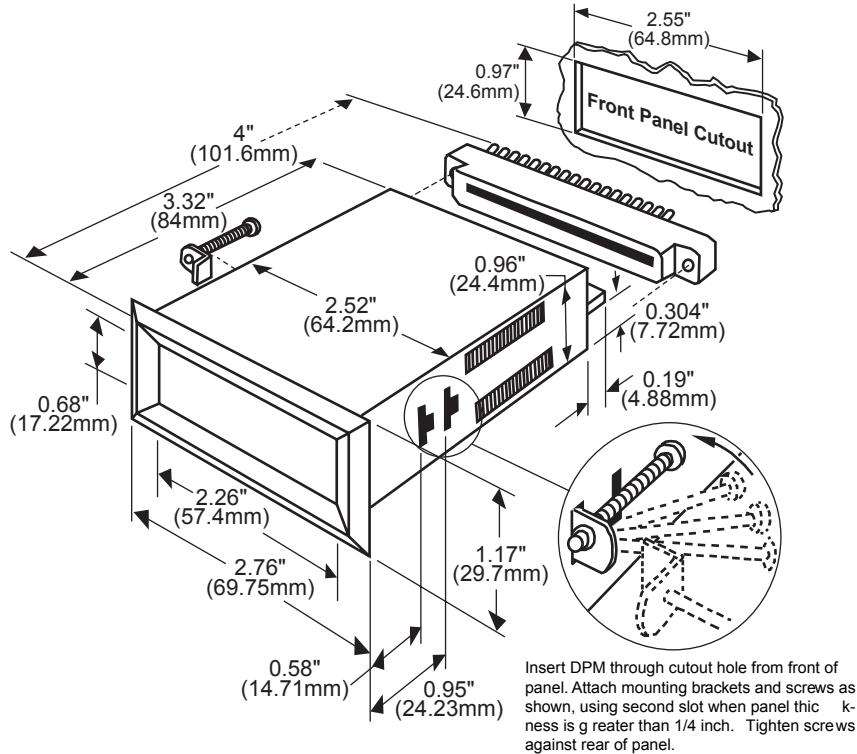
Part No. **EM-CASERED** for LED's  
**EM-CASECLR** for LCD's



#### 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



Insert DPM through cutout hole from front of panel. Attach mounting brackets and screws as shown, using second slot when panel thickness is greater than 1/4 inch. Tighten screws against rear of panel.

## Ordering Information

### Standard Options for this Model Number

Part Number	Description
<b>► BASIC MODEL NUMBER</b>	
SP-35XMV	3.5 digit LCD DCMV Input, 10-100VDC or 18-36VAC Pwr

### Special Options and Accessories

Part Number	Description
<b>► SPECIAL OPTIONS (Specify Inputs &amp; Req. Reading)</b>	
CB-FS35	Non-Std Scale Changes, 3.5 Digit Meters
<b>► ACCESSORIES</b>	
CN-L10	Edge Connector with Solder eyelet, 10 Pin Dual
CN-PUSH/SP	Push-on Screw Terminal Block Conn
TB-KIT	Replacement 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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