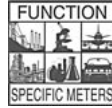




SP-Series



SP-35XMV

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

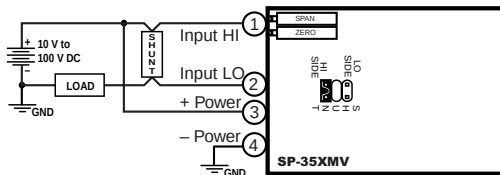
Compact DC Ammeter with Screw Terminal and Edge Connector Inputs.

General Features

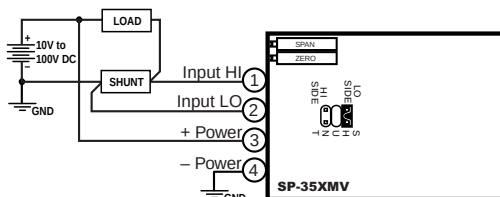
The SP-35XMV is a compact 3 1/2 digit, 4 wire DC millivolt meter. By connecting across a 50 mV/100 mV current shunt the meter can be user calibrated to read DC current. An internal header selects "HI side" or "LO side" shunt configuration. A wide range power supply allows the meter to be connected to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

Typical Application Connections

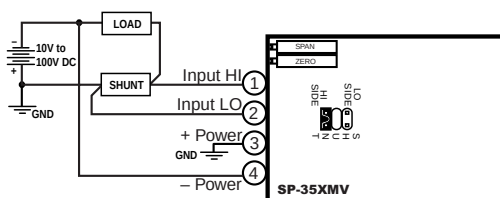
HI Side Shunt Configuration. Negative Ground.



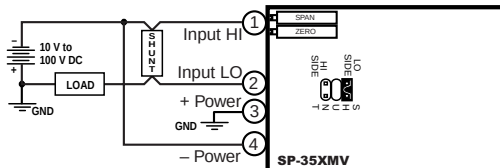
LO Side Shunt Configuration. Negative Ground.



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:500K Ω

Full Scale Ranges: $\pm 1999A$ or $\pm 199.9mV$

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 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: .. $0^{\circ}C$ to $60^{\circ}C$

Storage Temperature: $0^{\circ}C$ 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