



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.

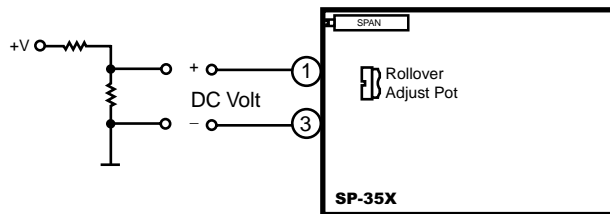
General Features

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.

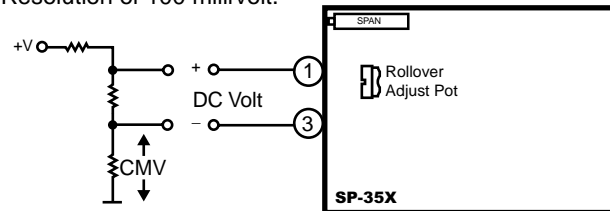
Each SP-Series meter is provided with a set of screw terminal blocks that can accept either bare wire or crimp-on 0.110" x 0.032" insulated disconnects. The SP-Series pin out is designed so that a standard PCB edge connector can also be used instead of the screw terminal blocks if desired.

Typical Application Connections

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



DC Volts Differential measurement with a Resolution of 100 milliVolt.

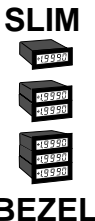


Max CMV (common mode voltage) is 50V.*

*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.



Specifications

Input Configuration:Single-ended

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

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

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 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°C

Storage Temperature:.....-20°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