



## MU-35

Miniature DC Volt Meter  
3 1/2 Digit 0.315" LED  
in a 1/32 DIN Case

A Multi-range, Easily-scaled, DC Volts Measuring, AC/DC Powered LED Meter.

### General Features

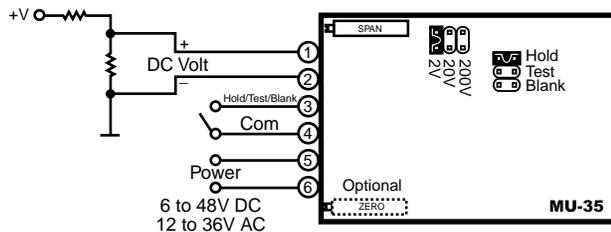
The MU-35 is a miniature, streamlined DC voltage measuring meter. The meter has three built-in header selectable ranges of 2V, 20V and 200V. It is specifically designed to be easily user-scaled and calibrated to almost any conceivable engineering unit, such as temperature, pressure, viscosity or flow rates, etc., without requiring component changes.

On site scaling and recalibration is facilitated by multi-turn potentiometer that provide continuous adjustment within each of three header-programmable full scale ranges for span and zero offset. Display Hold and Display Test functions are also provided. The standard meters have a high efficiency red LED display. Green displays may also be specified. (See ordering information for available choices).

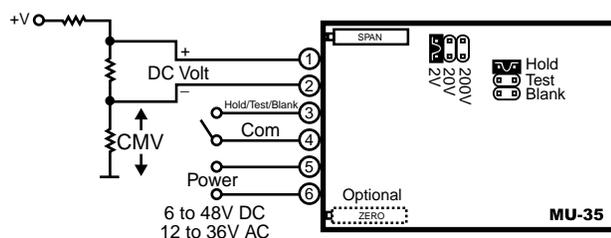
The MU-35 interconnects by means of a push-on screw terminal that is provided with the meter. A high quality, internally isolated, wide range, switching supply is built into every MU-35 meter. This allows the meter to operate from a wide range of AC or DC voltages. (See specifications.) The isolation ensures that ground loop currents do not affect the meter stability.

### 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 MU-Series have a matching DIN case style that is complementary to the Lynx, Leopard and Tiger family of meters. MU-Meters are the OEM's choice for economical switchboard and process indication. For economy, each model is dedicated to a specific application and designed for quick and easy installation.



### Specifications

- Input Configuration:** ..... Single-ended with optional provision to offset the zero of the reading being displayed
- Input Impedance:** ..... 1M minimum
- Full Scale Ranges:** ..... Three built-in header selectable ranges of  $\pm 2V$  DC,  $\pm 20V$  DC and  $\pm 200V$  DC full scale
- A/D Converter:** ..... 12 Bit Dual Slope
- Accuracy:** .....  $\pm (0.05\%$  of reading + 2 digits)
- Temperature Coefficient:** ... 100ppm/ $^{\circ}C$  (Typical)
- Warm up Time:** ..... One minute to specified accuracy
- Conversion Rate:** ..... 3 readings per second
- Display:** ..... 0.315" High Efficiency Red LED, optional Green LED, optional non-functional, right hand side dummy zero available
- Decimal Selection:** ..... User programmable to 4 positions
- Over-range Indication:** .... If input exceeds full scale on any range being used, most significant "1" digit & polarity symbol is displayed all other digits blank.
- Power Supply:** ..... 6V DC to 48V DC or 12V AC to 36V AC. Approximately 1.5 watts.
- Operating Temperature:** ...  $0^{\circ}C$  to  $+50^{\circ}C$
- Storage Temperature:** .....  $-20$  to  $70^{\circ}C$
- Relative Humidity:** ..... 95% (non-condensing)
- Case Dimensions:** ..... 1/32 DIN (Bezel 48Wx24Hmm)  
Depth behind bezel (3.19") 81mm Plus (0.38") 9.5mm for connector
- Weight:** ..... 312 gms (11oz)  
397 gms (14 oz) when packed