



0.56"
LEDs



0.8"
LEDs

UM-35

2V DC to 200V DC Meter
3 1/2 DIGIT with 0.56" or 0.8" LEDs
in a Traditional NEMA Style Case

A low cost Utility Meter for General Purpose
Single or Differential DC Voltage Measurement.

General Features

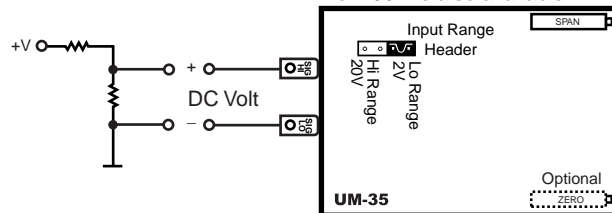
The UM-35 is a low-cost, utility, DC voltage measuring meter with two built-in ranges of 2V and 20V or optionally 2V and 200V. This meter is a very cost-effective solution to most DC voltage measuring applications since it may be used to measure single-ended as well as differential signals and is easily scaled to any desired process engineering unit.

An economical option is the dummy (non-functional) right hand-side zero which allows the meter to display readings from -19990 to +19990 without going to the expense of a 4.5 digit meter. The apparent resolution with the dummy zero option would be 10 counts.

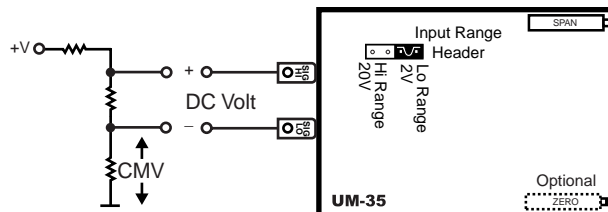
The standard meter is provided with TB-KIT screw terminal blocks and insulated quick-disconnects. For the greatest convenience and ease of use, order the optional pre-configured Push-On screw terminal connectors. (see Push-On Screw Terminals and Ordering Information)

Typical Application Connections

DC Volts Single-ended measurement with
a Resolution of 100 millivolt. Factory installed Hi Range
of 200V is also available



DC Volts Differential measurement with
a Resolution of 100 millivolt. Factory installed Hi Range
of 200V is also available



Max CMV (common mode voltage) = 50V*

Compatibility

The UM-Series NEMA case style is complementary to Texmate's Classic RP-Series. For economy, each UM model is dedicated to a specific application. UMs are ideal for upgrading or replacing the traditional USA NEMA case panel meters presently in use.

**Traditional
NEMA
STYLE USA
CASE**

Specifications

Input Configuration:Single-ended, however the isolated power
Provision for optional zero pot
to offset the reading displayed.
(See Ordering Information) supply enables differential measurements
up to a maximum common mode of 50V.*

Full Scale Ranges:Two header selectable ranges of $\pm 2V$ DC
and $\pm 20V$ DC or optionally ($\pm 2V/\pm 200V$)

Input Impedance:1M Ω minimum

A/D Converter:12 Bit Dual Slope

Accuracy: $\pm(0.05\%$ of reading plus 2 counts)

Temperature Coefficient: 100ppm/ $^{\circ}C$ (Typical)

Warm Up Time:2 minutes to specified accuracy

Conversion Rate:3 conversions per second (Typical)

Display:3 1/2 digit 0.56" Red LED display (std),
(optn) Green or Super Bright Red, 0.8"
Red or Green. Range 0 to 1999 counts.

Decimal Selection:Header under face plate, X•X•X•X•

Overrange Indication:1 (MSD) displayed with all other digits blank

Power Supply (std):120/240V AC, 50/60/400Hz. approx 1.5W.
(Optn) VO-DC/ISOIsolated Switcher. 9 to 36V DC/12 to 24V AC
(Optn) VO-24VIsolated Transformer 24V AC $\pm 10\%$
(Optn) VO-5V DCNon-isolated 5V DC $\pm 10\%$

Operating Temperature: ..-10 to 50 $^{\circ}C$

Storage Temperature:-20 to 70 $^{\circ}C$.

Relative Humidity:95% (non-condensing)

Case Dimensions:Bezel 4.06"Wx1.89"H (102.7Wx47.9Hmm)
Depth behind bezel 3.64" (92.22 mm) Plus
0.5 to .9" (12.7 to 22.8mm) depending on
connector used.

Weight:10oz., 13oz. when packed.