



0.56"
LEDs



0.8"
LEDs

UM-35AC

199.9V AC to 700V AC Meter
3 1/2 DIGIT with 0.56" or 0.8" LEDs
in a Traditional NEMA Style Case

A low cost utility meter for AC voltage measurement
with safe resistively isolated differential inputs.

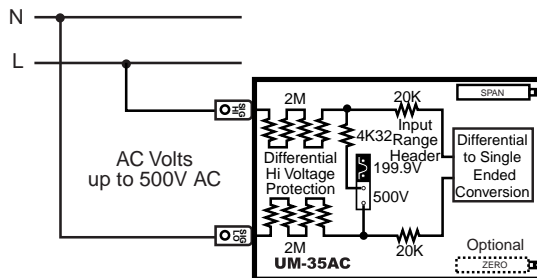
General Features

The UM-35AC is a low-cost, utility, AC voltage measuring meter with two built-in ranges of 199.9V AC and 700V AC. The unique resistively isolated differential input of this meter allows safe measurement of phase to phase voltages, making it a effective solution to most AC voltage measuring applications.

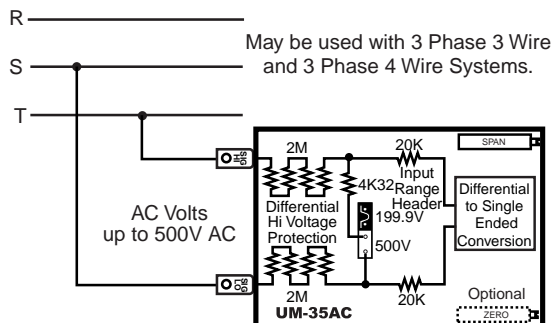
The standard meter is provided with TB-KIT screw terminal blocks and insulated quick-disconnects. For the greatest convenience and ease of use, order the optional preconfigured Push-On screw terminal connectors. (see Push-On Screw Terminals and Ordering Information)

Typical Application Connections

AC Voltage measurement in Single-phase Systems.



AC Phase to Phase Voltage measurement in Multi-phase Systems.



The unique differential input allows safe
phase to phase AC line voltage measurements up to 500V AC.

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:Differential input. Inputs resistively isolated to 1400V from internal ground of meter by 1.94M Ω , so that phase to phase measurements up to 700V AC can be safely made.

Full Scale Ranges:Two built in header selectable ranges of 199.9V AC and 700V AC full scale .

Input Impedance:4M Ω minimum.

A/D Converter:12 Bit Dual Slope

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

Temperature Coefficient: 100 ppm/ $^{\circ}$ 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, 50/60/400 Hz. 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.