



0.56"
LEDs



0.8"
LEDs

TEXMATE

UM-35ACI1 & UM-35ACI5

1 Amp and 5 Amp AC Meters
3 1/2 DIGIT with 0.56" or 0.8" LEDs
in a Traditional NEMA Style Case

Utility AC current measuring meters designed for direct connection to industry standard 1 Amp and 5 Amp CTs.

General Features

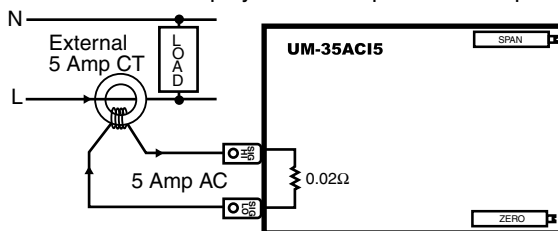
The UM-35ACI1 and UM-35ACI5 are low cost, utility AC current measuring meters. Their low resistance internal shunt, has a very low burden of 0.1VA and 0.5VA when directly connected to 1A or 5A CT's (current transformers) respectively. No matter what the CT ratio, the 15 turn, infinitely adjustable Span potentiometer enables the user to easily scale the meters to display almost any current value required.

The UM-35ACI1 and UM-35ACI5 meters can withstand momentary over loads of up to 200 Amps (40 times input signal) for one second without developing an open circuit. Texmate's unique differential AC measurement circuit provides a safe high impedance ohmic isolation on both sides of the shunt.

Typical Application Connections

AC Current measurement in Single-phase Systems.

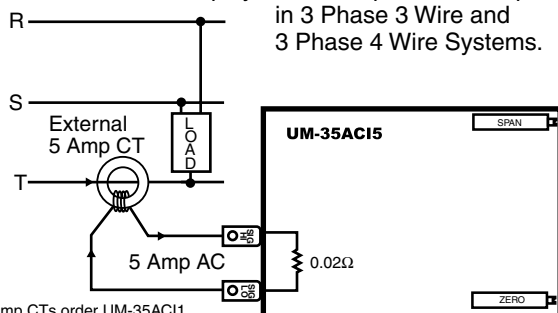
Easily User Scaled to Display Currents up to 1999 Amps.



For 1 Amp CTs order UM-35ACI1

AC Current measurement in Multi-phase Systems.

Easily User Scaled to Display Currents up to 1999 Amps in 3 Phase 3 Wire and 3 Phase 4 Wire Systems.



For 1 Amp CTs order UM-35ACI1

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:**Shunt input with differential auto zeroing AC to DC converter scaled in RMS. A Zero pot is provided to offset the displayed reading ± 500 counts.
- Full Scale Ranges:**1 Amp and 5 Amp Inputs can be scaled to any desired display value from 0 to 1999.
- Input Impedance:**0.02 Ω for 5A CT. Burden is only 0.5VA
0.1 Ω for 1A CT. Burden is only 0.1VA
- A/D Converter:**12 Bit Dual Slope
- Accuracy:** $\pm (0.05\%$ of reading plus 2 counts)
- Temperature Coefficient:** 100 ppm/ $^{\circ}\text{C}$ (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 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 $^{\circ}\text{C}$
- Storage Temperature:**-20 to 70 $^{\circ}\text{C}$.
- 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.