

# TEXMATE



0.56"  
LEDs



0.8"  
LEDs

## UM-40AC

700.0V AC Meter

4 DIGIT with 0.56" or 0.8" LEDs  
in a Traditional NEMA Style Case

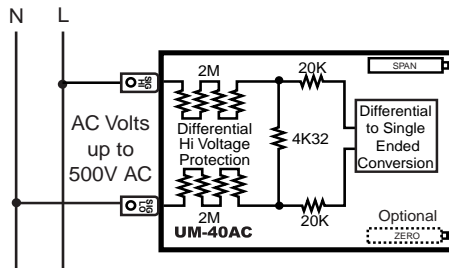
A utility meter for high resolution AC volts measurement  
with safe resistively isolated differential inputs.

### General Features

The UM-40AC is a low-cost, utility, AC voltage measuring meter with range of 0 to 700.0V 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 high resolution 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 pre-configured Push-On screw terminal connectors. (see Push-On Screw Terminals and Ordering Information)

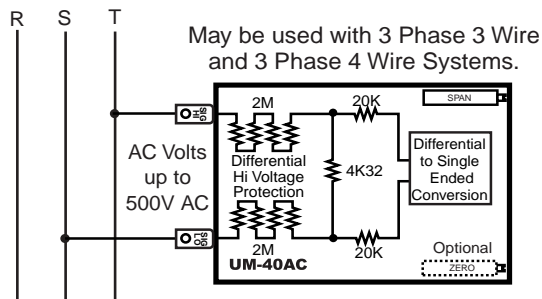
### Typical Application Connections

**AC Voltage measurement in Single-phase Systems.**  
Maximum display of 500.0V AC.



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

Maximum display of 500.0V AC.



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 1.94MΩ, so that phase to phase measurements up to 700V AC can be safely made.

**Full Scale Ranges:** .....700V AC full scale

**Input Impedance:** .....4MΩ minimum.

**A/D Converter:** .....16 Bit Dual Slope

**Accuracy:** .....±(0.05% of reading + 3 counts)

**Temperature Coefficient:** 100 ppm/°C (Typical)

**Warm Up Time:** .....2 minutes to specified accuracy

**Conversion Rate:** .....3 conversions per second (Typical)

**Display:** .....4 digit 0.56" Red LED display (std), (optn)  
Green or Super Bright Red.  
Range 0 to 9999 counts.

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

**Overrange Indication:** .....Display flashes "0000"

**Power Supply (std):** .....120/240V AC, 50/60/400Hz. approx 1.5W.

(Optn) VO-DC/ISO .....Isolated Switcher. 9 to 36V DC/12 to 24V AC

(Optn) VO-24V .....Isolated Transformer 24V AC ±10%

(Optn) VO-5V DC .....Non-isolated 5V DC ±10%

**Operating Temperature:** .....-10 to 50 °C

**Storage Temperature:** .....-20 to 70 °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.