





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.

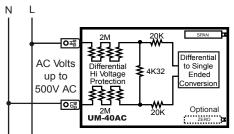
General Features

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 allo ws safe measurement of phase to phase v oltages, making it a eff ective solution to most high resolution AC voltage measuring applications.

The standard meter is pro vided with TB-KIT scre w ter minal blocks and insulated quic k- disconnects. For the g reatest convenience and ease of use , order the optional pre-configured Push-On scre w ter minal connectors . (see Push-On Scre w Terminals and Ordering Information)

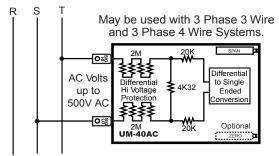
Typical Application Connections

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.

UM-Series low cost utility meters for switchboard and process indication

UM-35AC11/5 AC amps, Scaled RMS, (1 or 5 Amp internal shunt), 3.5 digit
UM-35AC.......AC volts, Scaled RMS. 199.9V AC/700V AC Header Selectable Ranges, 3.5 digit
UM-40AC......AC volts, Scaled RMS. 700.0V AC full scale, high resolution 4 digit
UM-35HZ15Hz to 199.9Hz or optionally 40Hz to 500Hz up to 500V AC input, 3.5 digit
UM-35HZDC Volts ±2/20V DC Header selectable or optionally ±2/200V DC, 3.5 digit
UM-35MVDC mV ±50mV and ±100mV select inputs to suit DC current shunts, 3.5 digit
UM-45MVDC mV ±50 mV, ±100mV, or ±200mV selectable inputs to suit DC current shunts, 4.5 digit

Compatibility

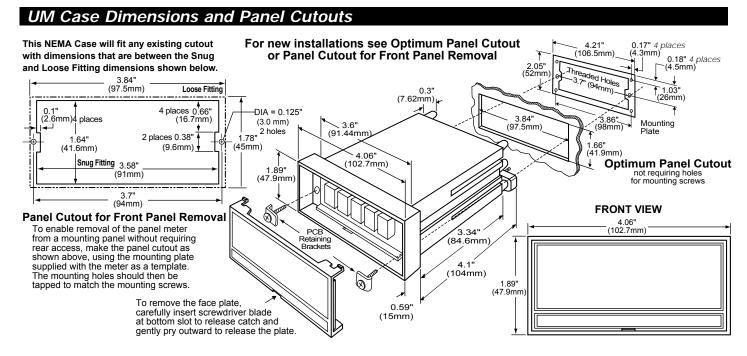
The UM-Ser ies NEMA case style is complementary to Texmate's Classic RP-Series. For economy, each UM model is dedicated to a specific application. UMs are ideal f or upgrading or replacing the tr aditional USA NEMA case panel meters presently in use.



Specifications

Input Configuration: Provision for optional zero pot to offset the reading displayed. (See Ordering Information)	Differential input. Inputs resistively isolated to 1400V from internal ground of meter by $1.94M\Omega$, so that phase to phase measurements up to 700V AC can be safely made.
Full Scale Ranges:	700V AC full scale
Input Impedance:	4M Ω minimum.
A/D Converter:	16 Bit Dual Slope
Accuracy:	±(0.05% of reading + 3 counts)
Temperature Coefficien	t: 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•
Decimal Selection:	•
Overrange Indication:	•
Overrange Indication: Power Supply (std):	Display flashes "0000"
Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO	Display flashes "0000" 120/240V AC, 50/60/400Hz. approx 1.5W.
Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V	Display flashes "0000" 120/240V AC, 50/60/400Hz. approx 1.5W. Isolated Switcher. 9 to 36V DC/12 to 24V AC
Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V	Display flashes "0000" 120/240V AC, 50/60/400Hz. approx 1.5W. Isolated Switcher. 9 to 36V DC/12 to 24V AC Isolated Transformer 24V AC ±10% Non-isolated 5V DC ±10%
Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V (Optn) VO-5V DC	Display flashes "0000" 120/240V AC, 50/60/400Hz. approx 1.5W. Isolated Switcher. 9 to 36V DC/12 to 24V AC Isolated Transformer 24V AC ±10% Non-isolated 5V DC ±10% :10 to 50 °C
Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V (Optn) VO-5V DC Operating Temperature	Display flashes "0000" 120/240V AC, 50/60/400Hz. approx 1.5W. Isolated Switcher. 9 to 36V DC/12 to 24V AC Isolated Transformer 24V AC ±10% Non-isolated 5V DC ±10% :10 to 50 °C 20 to 70 °C.
Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V (Optn) VO-5V DC Operating Temperature: Storage Temperature: Relative Humidity:	Display flashes "0000" 120/240V AC, 50/60/400Hz. approx 1.5W. Isolated Switcher. 9 to 36V DC/12 to 24V AC Isolated Transformer 24V AC ±10% Non-isolated 5V DC ±10% :10 to 50 °C 20 to 70 °C.

UM-35CLProcess 4 to 20mA (100.0), easily user scalable, 3.5 digit
UM-35CLEProcess 4 to 20mA (100.0) with 24V DC excitation, easily user scalable in
engineering units anywhere from –1999 to +1999. 3.5 digit
UM-45CLProcess 4 to 20mA (100.00), easily user scalable, 4.5 digit
UM-35PPressure, strain gage and load cell, 4 and 6 wire, 5V DC excitation,
Header Selectable Sensitivity 2mV/V, 5mV/V, 10mV/V, 20mV/V, 3.5 digit
UM-35J/KJ or K thermocouple input, 1° resolution, order °C or °F, 3.5 digit UM-35RTD100Ω platinum RTD, 3 or 4 wire, order °C or °F and 0.1° or 1°, 3.5 digit



Ordering Information

Standard Options	for this Model Number	
Part Number	Description	List

▶ BASIC MODEL NUMBER Includes 2 TB-KITs, standard display and standard power supply unless optional versions are ordered. UM-40AC......DPM, AC Volts, 700.0V AC.....

▶ DISPLAY

STANDARD0.56" Red LEDs
UM-BRIGHT4Display: .56 inch, Super bright Red LEDs
UM-GREEN4Display: .56 inch, Green LEDs

▶ POWER SUPPLY

STANDARD100/120 or 200/240VAC User selectable	
V0-DC/ISOIsolated auto-sensing AC/DC 9 to 36V DC/12 to 24V AC	
V0-24VIsolated transformer 12V AC or 24V AC user selectable	
VO-5V DCNon-isolated 5V DC only	

► SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)
HD-CHANGERange change from the standard input as shown in BOLD type.
V0-50KZero offset Potentiometer 50K

Special Options and Accessories		
Part Number	Description	List
► ACCESSORIES (Specify Serial # for Custom Artwork Installation)		

CN-L15 Connector: Dual Row, 30 Pin Edge Conn., 0.156" ctr
CN-PUSH/UM Connector: Push-on Terminal Block, 120V AC Pwr
CN-PUSH/UM01 . Connector: Push-on Terminal Block, 200-240V AC Pwr
CN-PUSH/UM02 . Connector: Push-on Terminal Block,120/240V AC select
CN-PUSH/UM03 . Connector: Push-on Terminal Block, 24V AC pwr
CN-PUSH/UM04 . Connector: Push-on Terminal Block, 9 to 36VDC/12 to 24 V AC
CN-PUSH/UM05 . Connector: Push-on Terminal Block, 5V DC
CN-UM/ANLGC Connector: Pinout Changer to match Analogic AN20M02 etc
OP-N4SEAL/UM . NEMA 4 lens cover for UM Series meters
RP•CASE Case: Replacement with Mounting Hardware
TB-KIT Connector: xtra Screw Terminal Blocks (3 sets=1 kit)
ART-FS-S/D NRC for Artwork & set-up Custom Faceplate and or Descriptor.
ART-FS-S/D/C NRC for Artwork & set-up Custom Faceplate and Custom Logo.
ART-FS-001 Produce & Install Custom Faceplate per meter - 1 color no-min
ART-FS-002 Produce & Install Custom Faceplate per meter - 2 color no-min
ART-FS-003 Produce & Install Custom Faceplate per meter - 3 color no-min
ART-FUM-001 Custom Faceplate, 100 piece Min. (\$3.00 each) - 1 color
ART-FUM-002 Custom Faceplate, 100 piece Min. (\$4.20 each) - 2 color
ART-FUM-003 Custom Faceplate, 100 piece Min. (\$5.40 each) - 3 color

Many other options and accessories are available. See full price list for more details. Prices subject to change without notice

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our v arious products either by way of print-ed matter or through direct contact with our sales/application engineering staff. However, since we have no control o ver the use of our products once the y are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR O THERWISE is made beyond the repair, replacement, or refund of purchase pr ice at the sole discretion of Texmate. Users shall deter mine the suitability of the product f or the intended application bef ore using, and the users assume all tisk and liability whatsoever in connection therewith, regardless of any of our suprestions or statements as to application per construction. In one event shall Texmates of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

Texmate cannot assume responsibility for any circuitry described. No circuit patent or software licenses are implied. Texmate reserves the right to change circuitry, operating software, specifications, and prices without notice at any time.

WARRANTY

WARKAN IY Texmate warrants that its products are free from def ects in material and workmanship under normal use and ser vice for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's faci-ity, transportation charges pre-paid, and which are , after examination, disclosed to the satis-faction of Texmate to be thus def ective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the or iginal pur-chase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate. product which has been either repaired or replaced by Texmate