

TEXMATE

UM-45

**2V DC to 200V DC Meter
4 1/2 DIGIT with 0.56" LEDs
in a Traditional NEMA Style Case**



0.56" LEDs



A utility meter, for high resolution single or differential DC voltage measurement, that can be easily scaled to any process engineering units of measure.

General Features

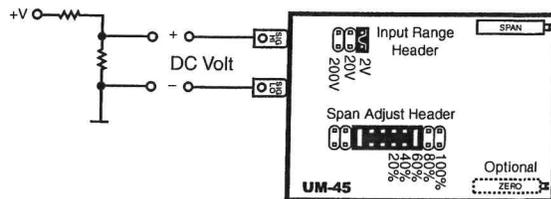
The UM-45 is an economical, high resolution DC voltage measuring meter with three header selectable full scale ranges of 2V, 20V and 200V. A five position Span Adjust header facilitates scaling to almost any process engineering unit of measure.

The standard meter has a high efficiency red LED display and user selectable AC power inputs of 100V AC to 120V AC or 200V AC to 240V AC are provided. An Optional 24V AC or an auto sensing isolated AC/DC 24V switching power supply can be ordered.

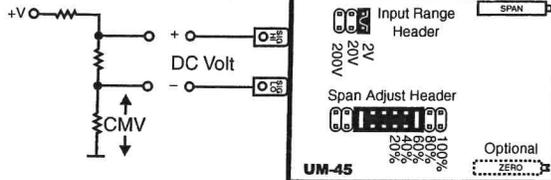
The standard meter is provided with TB-KIT screw terminal blocks and insulated quick-disconnects. For the greatest convenience and ease of use, order the optional preconfigured Push-On screw terminal connectors. (see Push-On Screw Terminals and Ordering Information)

Typical Application Connections

DC Volts Single-ended measurement with a Resolution of 10 millivolt.



DC Volts Differential measurement with a Resolution of 10 millivolt.



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:Three built in header selectable ranges of $\pm 2V$ DC, $\pm 20V$ DC & $\pm 200V$ DC FS

Input Impedance:1M Ω minimum

A/D Converter:16 Bit Dual Slope

Accuracy: \pm (0.05% of reading + 3 digits)

Temp. Coefficient:100ppm/° C (Typical)

Warm Up Time:2 minutes to specified accuracy

Conversion Rate:3 readings per second

Display:0.56" high efficiency LED Display Hold and Test Function

Polarity:Bipolar. Assumed +, displays -

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

Overload Indication:When input exceeds the full scale on any range being used, the meter displays flashing "0000"

Power Supply (std):120/240V AC, 50/60 Hz. approx 2.5W.

(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 Temp.:-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.

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-35ACAC volts, Scaled RMS. 199.9V AC/500V AC Header Selectable Ranges, 3.5 digit
UM-40ACAC volts, Scaled RMS. 500.0V 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-35DC Volts $\pm 2/20V$ DC Header selectable or optionally $\pm 2/200V$ DC, 3.5 digit
UM-35MVDC mV $\pm 50mV$ and $\pm 100mV$ select inputs to suit DC current shunts, 3.5 digit
UM-45DC Volts $\pm 2V/\pm 20V/\pm 200V$ DC Header selectable ranges 4.5 digit
UM-45MVDC mV $\pm 50mV$, $\pm 100mV$, or $\pm 200mV$ selectable inputs to suit DC current shunts, 4.5 digit

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-35RTD100 Ω platinum RTD, 3 or 4 wire, order °C or °F and 0.1° or 1°, 3.5 digit