



TEXMATE

UM-35CLE

4-20mA Process Loop 3 1/2 DIGIT with 0.56" or 0.8" LEDs in a Traditional NEMA Style Case

Easily user scaled, this meter has built-in 24V loop excitation and is ideal for 4-20mA process loop indication in any engineering unit of measure.

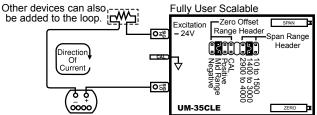
General Features

The UM-35CLE is an economical 4-20mA process loop measuring meter with a built-in 24V DC power supply to provide loop excitation. It is easily user adjustable to any reading between -1999 and +1999 with header selectable signal conditioning.

Typical Application Connections

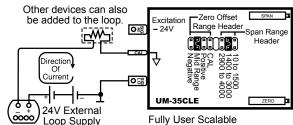
4 to 20mA Process Loop Measurement

Where the UM-35CLE meter provides the 24V loop excitation voltage.

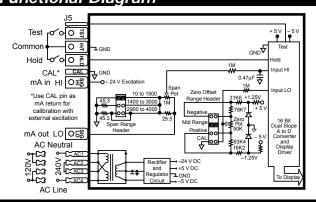


4 to 20mA Process Loop Measurement

Where the UM-35CLE meter does not provide the loop excitation voltage.



Functional Diagram



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 traditional USA NEMA case panel meters presently in use.

NEMA STYLE USA

Specifications

Specifications	
Input Configuration:	Series connection to 4-20mA process loop. Provides 24V DC to excite the loop.
	24V DC at 30mA. Provided by the meter. User adjustable to any scaling between -1999 to +1999.
Input Impedance:	70Ω. Maximum 1.4V drop
A/D Converter:	12 bit dual slope
Accuracy:	±(0.05% of reading + 2 counts)
Temperature Coefficien	t: 100 ppm/°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.
Polarity:	Bipolar. Assumed positive displays negative.
•	Bipolar. Assumed positive displays negative. Header under face plate, X•X•X•X•
Decimal Selection:	
Decimal Selection: Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V	Header under face plate, X•X•X•X•
Decimal Selection: Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V	Header under face plate, X•X•X•X•1 (MSD) displayed all other digits blank120/240V AC, 50/60/400 Hz. approx 1.5WIsolated Switcher 9 to 36V DC/12 to 24V A CIsolated Transformer 24V AC ±10%Non-isolated 5V DC ±10%
Decimal Selection: Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V (Optn) VO-5V DC	Header under face plate, X•X•X•X•1 (MSD) displayed all other digits blank120/240V AC, 50/60/400 Hz. approx 1.5WIsolated Switcher 9 to 36V DC/12 to 24V ACIsolated Transformer 24V AC ±10%Non-isolated 5V DC ±10%–10 to 50 °C
Decimal Selection: Overrange Indication: Power Supply (std): (Optn) VO-DC/ISO (Optn) VO-24V (Optn) VO-5V DC Operating Temperature:	Header under face plate, X•X•X•X•1 (MSD) displayed all other digits blank120/240V AC, 50/60/400 Hz. approx 1.5WIsolated Switcher 9 to 36V DC/12 to 24V A CIsolated Transformer 24V AC ±10%Non-isolated 5V DC ±10%–10 to 50 °C–20 to 70 °C.

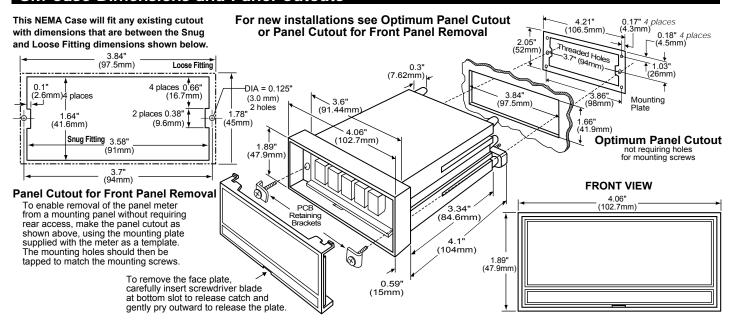
UM-Series low cost utility meters for switchboard and process indication

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/500V AC Header Selectable Ranges, 3.5 digit
UM-40AC......AC volts, Scaled RMS. 500.0V AC full scale, high resolution 4 digit
UM-35HZ......15Hz to 199.9Hz or optionally 40Hz to 500Hz up to 500V AC input, 3.5 digit
UM-35.............DC Volts ±2/20V DC Header selectable or optionally ±2/200V DC, 3.5 digit
UM-35MV.......DC mV ±50mV and ±100mV select inputs to suit DC current shunts, 3.5 digit
UM-45.........DC Volts ±2V/±20V/±200V DC Header selectable ranges 4.5 digit
UM-45MV........DC mV ±50 mV, ±100mV, σr ±200mV selectable inputs to suit DC current shunts, 4.5 digit

UM-35CLProces	ss 4 to 20mA (100.0) , easily user scalable, 3.5 digit
UM-35CLEProces	s 4 to 20mA (100.0) with 24V DC excitation, easily user scalable in
engine	eering units anywhere from –1999 to +1999. 3.5 digit
UM-45CLProces	ss 4 to 20mA (100.00) , easily user scalable, 4.5 digit
UM-35PPressu	ure, strain gage and load cell, 4 and 6 wire, 5V DC excitation,
Heade	r 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

Weight:.....10 oz., 13 oz when packed.

UM Case Dimensions and Panel Cutouts



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-35CLE......DPM, Process 4-20mA w/24VDC Exc.....

▶ DISPLAY

= : = : = : :
STANDARD0.56" Red LEDs
UM-BRIGHTSuper bright Red LEDs, 0.56 inch high
UM-GREENGreen LEDs, 0.56 inch high
UM-GREEN4.5Green LEDs, 0.56 inch high Dummy Zero Option for UM-35s .
UM-LARGE/GRNGreen LEDs, 0.8 inch high for UM-35 Series
UM-LARGE/REDRed LEDs, 0.8 inch high for UM-35 Series
UM-RED4.5Red LEDs, 0.56 inch high Dummy Zero Option for UM-35s

▶ POWER SUPPLY

STANDARD	100/120 or 200/240VAC User selectable
V0-DC/IS0	Isolated auto-sensing AC/DC 9 to 36V DC/12 to 24V AC
V0-24V	Isolated transformer 12V AC or 24V AC user selectable

▶ SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)

HD-CHANGE	Range change from the standard input as shown in BOLD type
V0-50K	.Zero offset Potentiometer 50K
CB-FS35	Non-Std Range and Scale changes for UM-35 meters

Special Options and Accessories

Part Number Description List

► ACCESSORIES (Specify Serial # for Custom Artwork Installation)

75-RPCLEAR Replacement Clear Lens for meter
75-RPFILTER Replacement Red Lens for meter
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 36V DC/12 to 24V 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.
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WARRANTY

Texmate warrants that its products are free from def ects in material and workmanship under Texmate warrants that its products are free from def ects in mater ial 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 facility, 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 an y 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.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed 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 sisk and liability whatsoever in connection therewith, regardless of any
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.

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