



0.8"

TEXMATE

UM-35CL

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



LEDs

Easily user scaled, this meter is ideal for indication of 4-20mA process loop signals in any engineering unit.

General Features

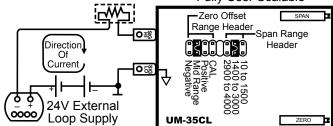
The UM-35CL is an economical 4-20mA process loop measuring meter. It is easily user adjustable to any reading between -1999 and +1999 with header selectable signal conditioning.

Typical Application Connections

4 to 20mA Process Loop Measurement

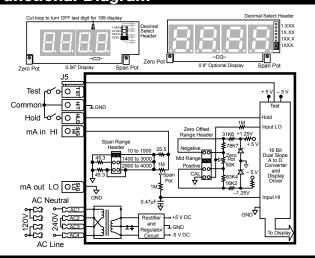
Other devices can also be added to the loop.

Fully User Scalable



Order the UM-35CLE, if you require the loop excitation voltage to be supplied by the meter.

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 for upgrading or replacing the traditional USA NEMA case panel meters presently in use.

Iraditional
NEMA
STYLE USA
CASE

Specifications

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Input Configuration:	Series connection to 4-20mA process loop.
Full Scale Ranges:	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.
Decimal Selection:	Header under face plate, X•X•X•X•
Overrange Indication:	1 (MSD) displayed all other digits blank
(Optn) VO-DC/ISO (Optn) VO-24V	120/240V AC, 50/60/400 Hz. approx 1.5W. Isolated Switcher 9 to 36V DC/12 to 24V A C Isolated Transformer 24V AC ±10% 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.

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

UM-35ACI1/5 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-35............DC Volts ±2/20V DC Header selectable or optionally ±2/200V DC, 3.5 digit

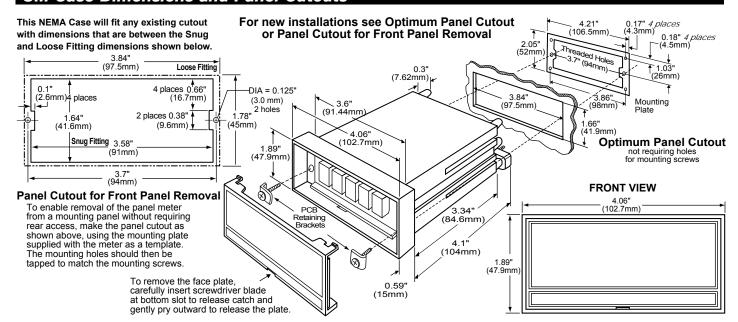
UM-35MVDC mV ±50mV and ±100mV select inputs to suit DC current shunts, 3.5 digit

UM-45DC Volts ±2V/±20V/±200V DC Header selectable ranges 4.5 digit

UM-45MVDC mV ±50 mV, ±100mV, or ±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-35P........Pressure, 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/K......J or K thermocouple input, 1° resolution, order °C or °F, 3.5 digit
UM-35RTD......100Ω platinum RTD, 3 or 4 wire, order °C or °F and 0.1° or 1°, 3.5 digit

UM Case Dimensions and Panel Cutouts



Ordering Information

Standard Options for this Model Number

Part Number Description

▶ BASIC MODEL NUMBER Includes 2 TB-KITs, standard display and standard power supply unless optional versions are ordered.

UM-35CL......DPM, Process 4-20mA

▶ DISPLAY

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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	solated transformer 12V AC or 24V AC user selectable
VO-5V DC	Non-isolated 5V DC only

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

HD-CHANGERange change from	om the standard input as shown in BOLD type
CB-FS35Non-Std Range a	and Scale changes for UM-35 meters

Special Options and Accessories Part Number Description

► 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 selec	t
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 AN20M0	2 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 Descrip	otor
ART-FS-S/D/C NRC for Artwork & set-up Custom Faceplate and Custom L	ogo
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 cold	r
ART-FUM-002 Custom Faceplate, 100 piece Min. (\$4.20 each) - 2 cold	r
ART-FUM-003 Custom Faceplate, 100 piece Min. (\$5.40 each) - 3 cold	ır
Many other options and accessories are available. See full price list for more details.	

WARRANTY

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 satisfaction 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 purchase 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 v arious 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 price at the sole discretion of Texmate. Users shall deter mine the suitability of the product for the intended application before using, and the users assume all isk 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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