



0.56"  
LEDs



0.8"  
LEDs

# 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

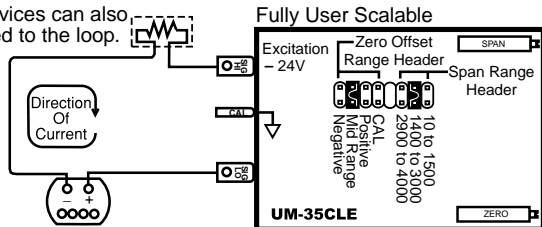
The UM-35CLE is an economical 4-20mA process loop measuring meter with a built-in 24V DC power supply to provide loop excitation. It is easily user adjustable to any reading between -1999 and +1999 with header selectable signal conditioning.

### Typical Application Connections

#### 4 to 20mA Process Loop Measurement

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

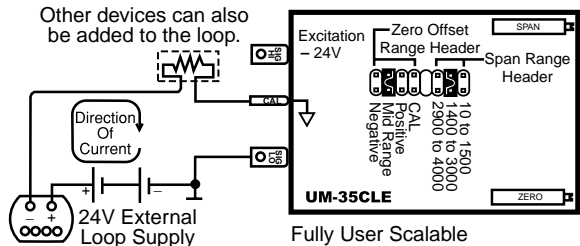
Other devices can also be added to the loop.



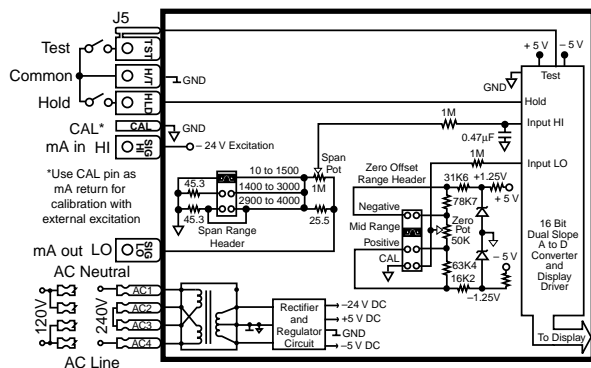
#### 4 to 20mA Process Loop Measurement

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

Other devices can also be added to the loop.



### Functional Diagram



### 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:** .....Series connection to 4-20mA process loop.  
Provides 24V DC to excite the loop.

**Loop Excitation:** .....24V DC at 30mA. Provided by the meter.

**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 Coefficient:** 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

**Power Supply (std):** .....120/240V AC, 50/60/400 Hz. 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:** .....10 oz., 13 oz when packed.