



Available in stackable cases (see rear page)



## CM-35XTL

Loop-Powered Process Meter  
3 1/2 Digit 0.48" LCD  
in a Slim Bezel Case

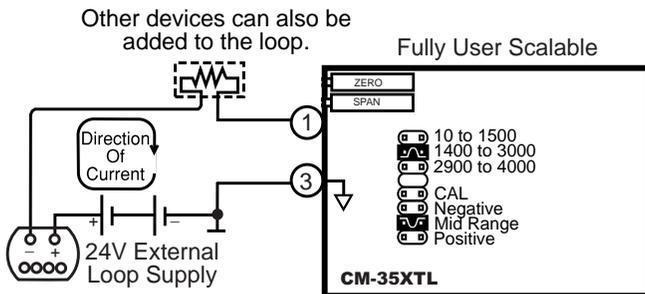
A Multirange, Easily-Scaled 4-20 mA Process Meter with Screw Terminal and Edge Connector Inputs, °C OR °F and less than 1 V Loop Drop.

### General Features

The CM-35XTL is a functional replacement for the CM-35X meter, but requires only a 1 V loop drop to operate, making it especially suitable for current loops that would otherwise exceed their power supply capacity with too many devices connected. Its counterpart, the CM-35XT, is a lower-cost alternative to the CM-35XTL. It has the same pinout as the CM-35XTL but a higher loop drop of 6.5V, making it suitable for applications where fewer devices are in the current signal loop.

The meters feature Display Hold, Display Test and Auto-Polarity indication. The polarity indication may be disabled or reversed by repositioning jumper clips on internal header pins. Another feature of the CM-series meters is the 4 1/2 digit LCD display which provides for a non-active trailing dummy zero or a °C/°F descriptor. Descriptor indication may be disabled or re-programmed by repositioning jumper clips on internal header pins. The CM-35XTL & CM-35XT are designed to be easily user scaled and calibrated to almost any conceivable engineering unit, such as temperature, pressure, viscosity or flow rates etc., without requiring component changes.

### Typical Application Connections



### Compatibility

The CM-Series is shipped in a standard Slim Bezel case. The Slim Bezel case is compatible with the TM, SM, PM, & SP Series of meters. The CM-Series can be ordered in End Mount cases for twin mounting or combinations of multiple center mount cases and two end mount cases for stack mounting.

SLIM



BEZEL

### Specifications

- Input Configuration:** .....Series connection to 4-20 mA DC current loop
- Loop Excitation:**.....External
- Full Scale Ranges:**.....Standard meter is adjustable to any scaling between -1999 to +1999 without component changes
- Input Impedance:** .....1 volt drop @ 20 mA
- Maximum Overcurrent:** .....200 mA continuous
- A/D Converter:** .....12 bit dual slope
- Accuracy:** .....±(0.05% of reading + 2 digits)
- Temperature Coefficient:** ..100 ppm/°C (typical)
- Warm Up Time:**.....One minute to specified accuracy
- Conversion Rate:** .....3 readings per second
- Display:** .....0.48" Liquid Crystal Display (LCD)  
"Display Hold"
- Polarity:**.....Automatically displays either "+" or "-"; header programmable polarity disable and reversal
- Decimal Selection:**.....User programmable to three positions
- Over-range Indication:**..When input exceeds full scale on any range being used, most significant "1" digit and polarity symbol are displayed with all other digits blank
- Power Supply:**.....No Separate Power Supply is Required; as the unit derives its power from the 4-20 mA current loop signal
- Operating Temp.:** .....-20°C to +50°C
- Storage Temperature:**.....-20°C to +70°C
- Relative Humidity:** .....95% (non condensing)
- Case Dimensions:** .....Bezel (2.755"W x 1.170"H) 69.68mmW x 29.72mmH  
Depth behind bezel (3.315") 84.2mm  
Plus (0.685") 17.4mm for connector
- Weight:** .....87 gms (3.1 oz)  
142 gms (5 oz) when packed