TEXMATE

CM-Series

FUNCTION

SPECIFIC METERS

Available in stackable cases (see rear page)

CE

CM-35XT
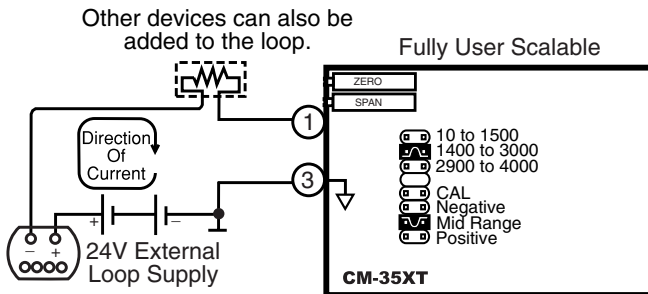Loop-Powered Panel Meter
3 1/2 Digit 0.48″ LCD
in a Slim Bezel Case

A Multirange, Easily-Scaled, 4-20 mA Process Meter.

General Features

The CM-35XT is specially designed to simplify installation, calibration and scaling. It is one of the CM-Series family of meters. Deriving their operating power from the current loop, these meters require no external power supply. The CM-35XT is a functional replacement for the now obsoleted CM-35X meter. Its counterpart, the CM-35XTL, has the same pinout as the CM-35XT but requires only a 1.0V loop drop to operate, making it particularly suitable for current loops that would otherwise exceed their power supply capacity with too many devices connected.

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$\frac{1}{2}$ 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.

Typical Application Connections

Other devices can also be added to the loop.

Fully User Scalable

ZERO
SPAN

Direction Of Current

1

3

10 to 1500
1400 to 3000
2900 to 4000

CAL
Negative
Mid Range
Positive

24V External Loop Supply

CM-35XT

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 4-20mA DC current loop

Full Scale Ranges: ....Standard meter is adjustable to any scaling between -1999 to +1999 or -19990 to +19990 with the dummy zero enabled

Input Impedance: ....5.1 Volts drop, plus 70.8Ω (equivalent to 6.5V Maximum @ 20mA)

Maximum Overcurrent: ....200mA continuous

A/D Converter: ....12 bit dual slope

Accuracy: ....± (0.05% of reading + 2 digits)

Maximum Resolution: ....± 1999 counts

Gain Temp. Coefficient: ....0.2 counts/˚C typical

Zero Temp. Coefficient: ....0.15 counts/˚C typical

Conversion Rate: ....3 readings per second

Display: ....0.48" Liquid Crystal Display (LCD)

Descriptors: ....Header programmable trailing dummy zero, ˚C or ˚F

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 4-20mA current loop signal

Operating Temperature: ....-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: ....143 gms (5 oz) when packed

CM-Series, The Choice for Loop-Powered Meters

CM-35XT . . . . .3.5 digit LCD, Loop Powered, 4-20mA (1.0.0.0.0)   CM-35XTL . . . . .3.5 digit LCD, 1 Volt Drop, Loop Powered, 4-20mA (1.0.0.0.0)

The Slim Bezel Case is supplied as standard. If specified at time of ordering, any combination of Twin Mounting and Multiple Array Cases may be substituted at no additional cost. Extra cases may be ordered separately.

STANDARD SLIM BEZEL CASE
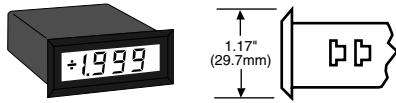
SLIM BEZEL CASE
Standard Black ABS case with matte finish bezel for single unit mounting.
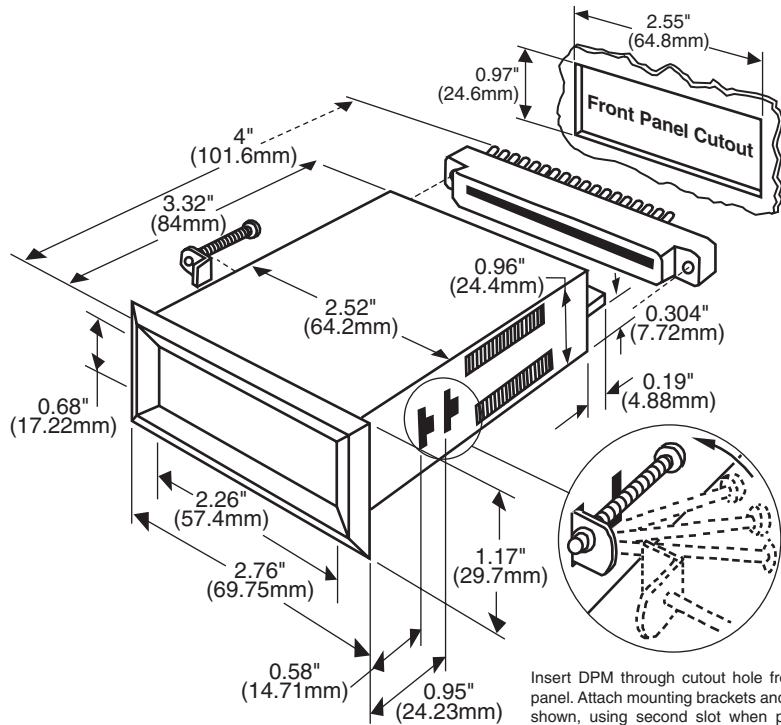Part No.   **SL-CASERED** for LED's
            SL-CASECLR for LCD's

1.17"
(29.7mm)

OPTIONAL TWIN MOUNTING OR MULTIPLE ARRAY CASES
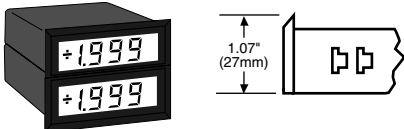
END MOUNT CASE
Same styling as Slim Bezel case but with bottom edge of bezel removed. Two End Mount cases can be twin mounted in a single cutout.
Part No.   **EM-CASERED** for LED's
            EM-CASECLR for LCD's

1.07"
(27mm)
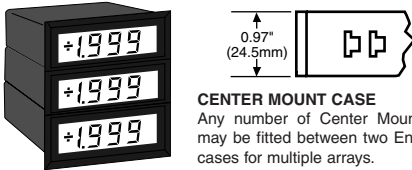
CENTER MOUNT CASE
Any number of Center Mount cases may be fitted between two End Mount cases for multiple arrays.
Part No.   **CM-CASERED** for LED's
            CM-CASECLR for LCD's

0.97"
(24.5mm)

2.55" (64.8mm)
0.97" (24.6mm)
Front Panel Cutout

4" (101.6mm)
3.32" (84mm)
2.52" (64.2mm)
0.96" (24.4mm)
0.304" (7.72mm)
0.19" (4.88mm)
0.68" (17.22mm)
2.26" (57.4mm)
2.76" (69.75mm)
1.17" (29.7mm)
0.58" (14.71mm)
0.95" (24.23mm)

Insert DPM through cutout hole from front of panel. Attach mounting brackets and screws as shown, using second slot when panel thickness is greater than 1/4 inch. Tighten screws against rear of panel.

Ordering Information

Standard Options for this Model Number

Part Number	Description

▶ BASIC MODEL NUMBER
CM-35XT . . . . .3.5 digit LCD, Loop Powered, 4-20mA

▶ SPECIAL OPTIONS (Specify Req. Reading)
CB-FS35 . . . . .Non-Std Scale Changes, 3.5 Digit Meters

Special Options and Accessories

Part Number	Description

▶ ACCESSORIES
CN-L10 . . . . .PCB Edge Connector, Solder Type, Dual Row 10 Pins
CN-PUSH/CM . . . . .CM Series Push-on Screw Terminal Block Connector
SL.CASECLR . . . . . .Slim Bezel Case, Clear Faceplate w/Mtg Hardware
CM.CASECLR . . . . .Center Mount Case, Clear Faceplate w/Mtg Hardware
EM.CASECLR . . . . .End Mount Case, Clear Faceplate w/Mtg Hardware
TB-KIT . . . . .Replacement Terminal Block Connector Kit (3)

Many other options and accessories are available. See full price list for details.
Prices subject to change without notice.