

Loop-powered Indicators



TI196 Head-mounted Indicator



AC102765 Pipe Mounting Hardware Kit



TI350 Indicator

Overview

The display range is field programmable via coarse dip switches and two fine adjustment potentiometers. Wiring is easy. Simply connect the indicator in series with the 4 to 20 mA loop. Forward voltage drop is only 2.8 VDC.

- Local indication of process variable for convenient visual verification
- Enclosures are sealed from harsh environments to enhance product reliability and longevity
- Variety of mounting options allows for flexible and easy installation
- Compatible with 4 to 20 mA temperature transmitters for easy sensor interchangeability
- IP66 NEMA 4X/7 rated (only for TI196)

TI196 head-mounted indicator

The TI196 includes an explosionproof connection head and digital indicator for local indication of temperature. Sensors and transmitters are specified separately. Optional Temptran models TT111, TT211, TT176, TT205 or TT190 will fit inside the connection head along with the meter.

TI196 Hazardous Area Certification (explosionproof/flameproof):

- Class I, Div I, Groups B,C and D
- Class II, Div I, Groups E,F and G
- Class III
- Ex d IIC

TI350 indicator

The TI350 features a washdown compatible digital readout for local indication of temperature. Sensors and transmitters are specified separately. Optional Temptran model TT321 will fit inside the case along with the meter. Other 4 to 20 mA transmitters may be mounted outside the case and used with this device.

- NEMA 4X enclosure
- Cable glands are installed for 0.118" to 0.256" (3mm to 6.5mm) cable

AC102765 pipe mounting hardware kit

Use AC102765 for mounting TI196 or TI350 to vertical or horizontal pipe. Kit includes plate, stainless U-bolts, nuts and washers for 2" schedule 40 pipe [Ø 2.375" (60mm)].

Order model number AC102765

Specifications subject to change

TI196 head-mounted indicator

Specifications

Input: 4 to 20 mA DC series connection

Range: User adjustable.
Zero: -500 to +1000 counts.
Span: 10 to 2000 counts.

Accuracy: \pm (0.1% reading + 1 count).

Temperature Coefficient:
Zero: \pm 0.075 counts/ $^{\circ}$ C typ.
Span: \pm 0.005% of span/ $^{\circ}$ C typ.

Linearity: \pm (0.1% of span + 1 count).

Forward Voltage Drop: 2.8 volts DC maximum.

Display: 0.59" (15mm) high, 3-1/2 digit LCD, with $^{\circ}$ C/ $^{\circ}$ F descriptor.

Display Update: 3 times per second.

Underrange Indication: -1 in MSD (Most Significant Digit).

Overrange Indication: 1 in MSD.

Connections: Terminal Block, Pluggable

Decimal: User programmable to 1 position or absent (i.e. 1XX.X or 1XXX).

Ambient Temperature Range:
Operating: 32 to 122 $^{\circ}$ F (0 to 50 $^{\circ}$ C).
Storage: -4 to 149 $^{\circ}$ F (-20 to 65 $^{\circ}$ C).

Weight: 50 oz. (1420 g.)

Enclosure: Aluminum, polyester-coated

Enclosure Rating: NEMA 4X, IP66

Dimensions (connection head): 4.5" W x 4.5" H x 3.4" D (144 mm W x 114 mm H x 87 mm D).

TI196 specification and order options

TI196	Model number TI196
P3	Pipe thread size: P2 = $\frac{3}{4}$ " - 14 NPT (sensor and conduit) P3 = $\frac{1}{2}$ " - 14 NPT (sensor and conduit)
(0/100)	Temperature range: (4 mA temp./20 mA temp.), user adjustable
C	Display: C = Celsius F = Fahrenheit
TI196P3(0/100)C = Sample part number	

Note: Sensors and transmitters are specified separately.

TI350 indicator

Specifications

Input: 4 to 20 mA DC series connection

Range: User adjustable.
Zero: -500 to +1000 counts.
Span: 10 to 2000 counts.

Accuracy: \pm (0.1% reading + 1 count).

Temperature Coefficient:
Zero: \pm 0.075 counts/ $^{\circ}$ C typ.
Span: \pm 0.005% of span/ $^{\circ}$ C typ.

Linearity: \pm (0.1% of span + 1 count).

Forward Voltage Drop: 2.8 volts DC maximum.

Display: 0.59" (15mm) high, 3-1/2 digit LCD, with $^{\circ}$ C/ $^{\circ}$ F descriptor.

Display Update: 3 times per second.

Underrange Indication: -1 in MSD (Most Significant Digit).

Overrange Indication: 1 in MSD.

Connections: Terminal Block, Pluggable

Decimal: User programmable to 1 position or absent (i.e. 1XX.X or 1XXX).

Ambient Temperature Range:
Operating: 32 to 122 $^{\circ}$ F (0 to 50 $^{\circ}$ C).
Storage: -4 to 149 $^{\circ}$ F (-20 to 65 $^{\circ}$ C).

Weight: 7 oz. (200 g.)

Enclosure: Polycarbonate, NEMA 4X.

Dimensions (box only): 2.6" W x 4.5" L x 2.2" D (65 mm W x 115 mm H x 56 mm D).

TI350 specification and order options

TI350	Model number TI350
(0/100)	Temperature range: (4 mA temp./20 mA temp.), user adjustable
C	Display: C = Celsius F = Fahrenheit
TI350(0/100)C = Sample part number	

Note: Sensors and transmitters are specified separately.

Specify and order products at:
www.minco.com/sensors_config

Specifications subject to change