



TCS/1000 Series

Matched and Unmatched
Temperature Transmitters

Description

The TCS/1000 Series are temperature sensor and transmitter pairings designed for sensing temperature in a variety of applications.

The TCS/1000 Series features:

- Two-wire 4 to 20 mA linear output
- 1000 Ω platinum RTD's
- A variety of factory calibrated ranges (minimum span of 25°F and maximum span of 400°F - no higher than +375°F)
- Loop-powered
- Superior level or radio frequency and electromagnetic interference rejection
- Optimum flexibility and reliability

Specifications

General

Sensing element: T3 1000 Ω Platinum RTD

Transmitter accuracy: +/- 0.1% of span

Sensor accuracy: PtRTD: +/- 0.1% @ 32°F (0°C)

Averaging: +/- 1.0°F @ 70°F (21.11°C)

Zero and span adjustment: Non-interacting

Environmental

Operating temperature:

Transmitter: 32 to 158°F (0 to 70°C)

Sensor: -50 to 375°F (-45.56 to 190.56°C)

Operating humidity: 0 to 100% RH, non-condensing

Storage temperature: 14 to 176°F (-10 to 80°C)

Electrical

Supply voltage: 8 to 35 VDC

Input voltage effect: +/- .001% of span/volt

Output: 4 to 20 mA DC, 2-wire

Maximum over current: 25 mA

Radio frequency interference effect:

+/- 0.5% FSO @ 27 MHz

Electromagnetic interference effect: +/- 0.1% FSO

Polarity protection: Diode protected

Specifications subject to change without notice

Ordering Information

Part #	Description
TCS/1000-T3-A-12	Continuous averaging sensor 12' length - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-A-24	Continuous averaging sensor 24' length - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-BO	Board Only 2W 4-20mA 1000 Ohm (X to X Deg. *)
TCS/1000-T3-D-12IN	12" Duct - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-D-4-BB	4" Duct W/therpf 2W 4-20 1000 Ohm (X to X Deg. *)
TCS/1000-T3-D-4IN	4" Duct - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-D-8IN	8" Duct - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-O	Outdoor - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-R	Room - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)
TCS/1000-T3-S	Strap-On - 2 wire 4-20mA 1000 ohm PRTD (X to X Deg. *)

T4 or T5 Accessories

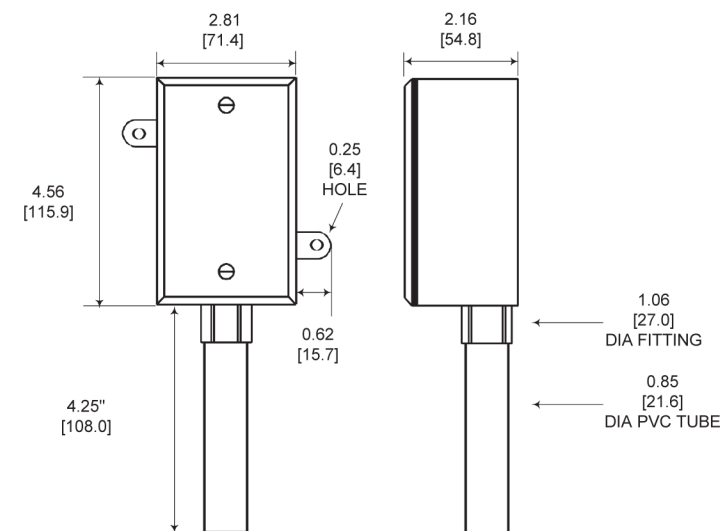
TQ1104	4" Thermowell, stainless steel to be used with 4" or 8" duct mount sensor
TQ1110	8" Thermowell, stainless steel to be used with 4" or 8" duct mount sensor
CP1030	Regulated power supply
QE50	100Ω PtRTD simulator
QE51	1000Ω PtRTD simulator

* Indicates Deg. F or Deg. C

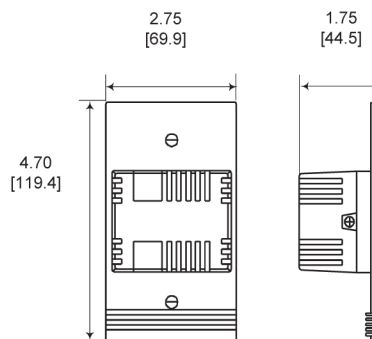
Dimensions

Note: inches [mm]

Outdoor Mount Sensor (O)



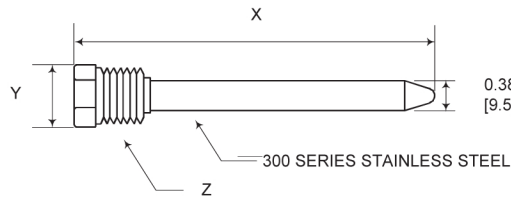
Wall Mount Sensor (R)



Dimensions

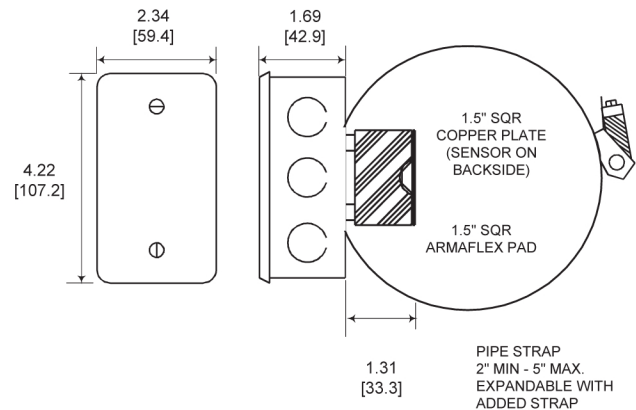
Note: inches [mm]

Immersion Mount Sensor (thermostat and duct mount sensor)

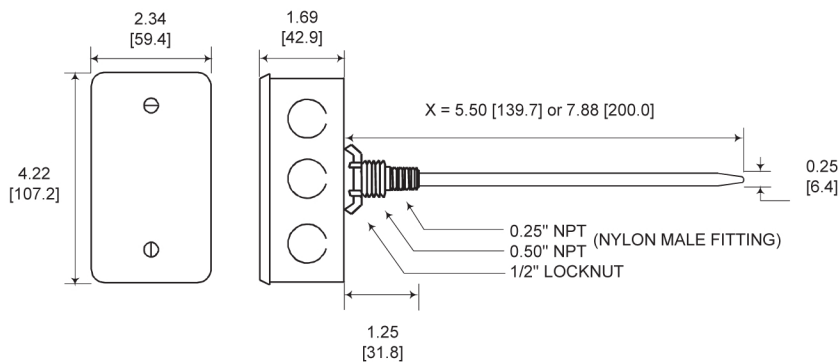


X: 6.75" OR 4.88" LENGTHS AVAILABLE
Y: 1.13" FOR 6.75" IMMERSION
0.88" FOR 4.88" IMMERSION
Z: 0.75" NPT FOR 6.75"
0.50" NPT FOR 4.88"

Pipe Strap-on (S)



4" or 8" Duct Mount Sensor (D)



Averaging Mount Sensor (A)

