

# **Description**

The TS Series  $1000\Omega$  platinum RTD temperature sensors are designed to sense temperature in a variety of applications.

The TS Series continuous averaging sensors match the platinum R-T characteristics but are composed of a proprietory element encased within a bendable copper sheath. The continuous averaging sensors are designed to average out temperature stratification in a duct or plenum.

#### The TS Series features:

- · Long-term stability
- Linear, drift-free operation
- Conformance to DIN IEC 751 standards
- Industry standard temperature coefficient of .00385  $\Omega/\Omega$ /°C

# **Specifications**

### General

Tolerance: +/-(0.3 + .005t) °C, +/-0.1% @ 32°F

(0°C)

Stability: < 0.05% drift per year

Repeatability: +/- 0.1°C

Averaging sensors:  $+/-1^{\circ}F @ 70^{\circ}F (21.11^{\circ}C)$ Temperature coefficient:  $0.00385 \Omega/\Omega/^{\circ}C$ Self-heating coefficient:  $< 5 m\Omega/^{\circ}C$ 

Reference resistance: 1000 Ω @ 32°F (0°C)
Response time: Air 1 m/s Air 3 m/s Water

0.3 sec.

17 sec.

25 sec.

Interchangability: +/-0.3°C @ 32°F (0°C)

Conformance: IEC 751

#### Environmental

(90% response)

Operating temperature: -50 to 375°F

(-45.6 to 190.6°C)

### Electrical

Max. current: 5 mA; recommended: 1 mA.

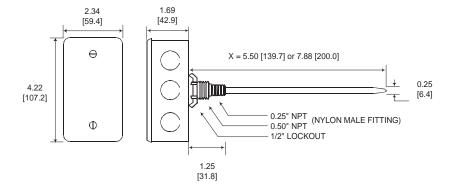
Specifications subject to change without notice

# **Ordering Information**

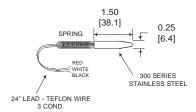
Part No.	Description
TS1000	1000 $\Omega$ Platinum RTD, wall mount
TS1002	1000 $\Omega$ Platinum RTD, 8" duct mount
TS1003	1000 $\Omega$ Platinum RTD, outdoor air mount
TS1005	1000 $\Omega$ Platinum RTD, strap-on mount
TS1006	1000 $\Omega$ Platinum RTD, continuous averaging sensor, 24' length
TS1007	1000 $\Omega$ Platinum RTD, universal sensor, 24" lead
TS1008	1000 $\Omega$ Platinum RTD, continuous averaging sensor, 12' length
TS1009	1000 $\Omega$ Platinum RTD, 4" duct mount
TS2000	1000 $\Omega$ Platinum RTD, room mount
TS2007	1000 $\Omega$ Platinum RTD, quick response sensor, 24" lead
TS2023a	1000 $\Omega$ Platinum RTD, room mount with setpoint (to be used with SZ1025a)
	TS Series Accessories
TQ1104	4" thermowell, stainless steel
TQ1110	8" thermowell, stainless steel
TX Series	Temperature Transmitters

# Dimensions Note: inches [mm]

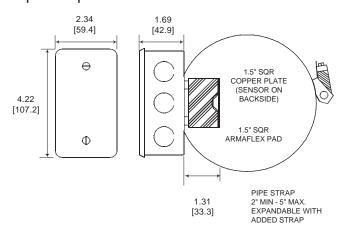
## 4" or 8" Duct Mount Sensor



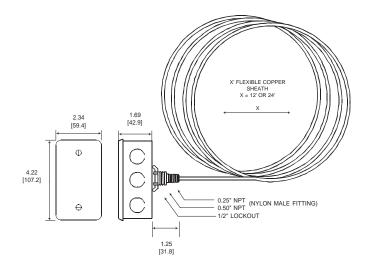
### **Universal Sensor**



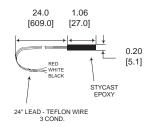
## Pipe Strap-on Mount Sensor



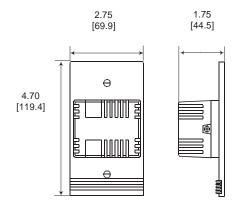
## **Averaging Mount Sensor**



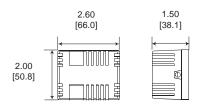
## Quick Response Sensor



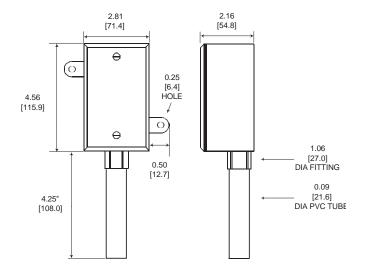
### Wall Mount Sensor



### Room Mount Sensor



## **Outdoor Air Mount**



## Room Mount with Setpoint and Override

