

## TS Series Temperature Sensors



## Description

The TS Series is 1000Ω Platinum RTD temperature sensors are designed to sense temperature in a variety of applications.

## Mounting

### UNIVERSAL SENSOR

Universal sensors may be mounted with our TQ Series mounting and application assemblies which are available separately. Refer to the TQ Series installation instructions. These universal sensors may also be mounted alone or with existing hardware. These models also include an adhesive backed plastic mounting clip suitable for mounting the sensor head to any clean, dry surface.

### WALL MOUNT

Wall mount sensors are designed for use with our TX Series 4 to 20mA transmitters. When properly mounted, the wall mount configuration eliminates inaccuracies caused by self-heating from the 4 to 20 mA transmitter. Mount the unit vertically with the heat sink at the bottom. These wall mount models may be mounted on standard 2" x 4" conduit boxes or directly to block or drywall. Colored mounting screws are provided. Mounting locations should be on interior walls which reflect the average room temperature at a height of approximately 5' from the floor. Avoid areas that are unventilated, near windows or open doors and areas that are exposed to direct sunlight or unusual heat sources.

### ROOM MOUNT

Room mount sensors are designed for standard space environments. The sensor is enclosed in a well ventilated ASB plastic housing. The plastic base can be

mounted to dry wall or block with standard bantam plugs or can be mounted to any standard 2" x 4" handy box using one of our TQ Series plate adapter.

### DUCT MOUNT

Duct mount sensors are designed to mount in a duct or can be used in conjunction with our thermowell for liquid applications. These devices are equipped with a standard 2" x 4" handy box (Nema 1) enclosure for easy mounting. By punching out the standard 1/2" knock outs, conduit can be added if required.

### STRAP-ON

Strap-on mount sensors are designed to mount on a pipe. These sensors are shipped with a 5" pipe strap. Additional straps can be added as needed.

### OUTDOOR AIR

Outdoor air sensors are enclosed in a standard weather-proof aluminum box. This enclosure should be properly sealed to ensure water resistance. Outdoor air sensors can be converted for duct mounting applications by changing the position of the PVC probe.

### AVERAGING

Use the mounting clips provided to mount the averaging element in a zig zag fashion across the air flow of the duct securing the end of the element with cable ties. Drill a hole with a 1" hole saw and mount the conduit enclosure. Insert the wiring end of the element through the protruding nylon fitting.

### QUICK RESPONSE

Quick response sensors are encapsulated in a thermally conductive compound that allows the sensor to respond quickly to temperature changes.

**TS SERIES SINGLE POINT IDENTIFICATION CHART**

<b>1000Ω PtRTD</b>	Red Wire	Black Wire	White Wire
ID: Red Dot	Lead One	Lead Two	Lead One
Relevant Products	TS1000, TS1002, TS1003, TS1005, TS1007, TS1009, TS2000, TS2007		

**TS SERIES CONTINUOUS AVERAGING IDENTIFICATION CHART**

<b>1000Ω PtRTD</b>	Orange Wire	Orange Wire
ID: Orange Wire	Lead One	Lead Two
Relevant Products	TS1006, TS1008	