

## Duct Point Temperature Sensors

### Product Description

The Duct Point Temperature Sensor provides temperature input to a controller.

### Product Numbers

Product Number	Sensing Element
544-339-XX	1000 $\Omega$ Platinum (375 $\alpha$ ) RTD
535-741-XX	100K $\Omega$ NTC
XX	Insertion Length in Inches (mm)
4	4 (101.6)
8	8 (203.2)
18	18 (457.2)

### Required Tools

- Drill with 13/32-inch (10.3 mm) bit
- Power screwdriver with standard screw chuck or medium flat-blade screwdriver
- Wire cutter/stripper

### Expected Installation Time

45 minutes

### Prerequisite

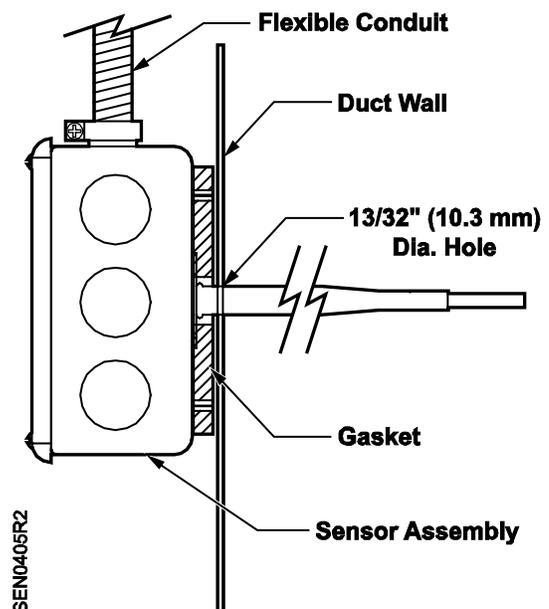
The appropriate field wiring, within the maximum wiring length, should be routed through the conduit.

### Installation

**NOTE:** All wiring must comply with National Electric Code (NEC) and local regulations.

1. Drill a 13/32-inch (10.3 mm) hole into the duct at the desired location of the sensor. See Figure 1.
2. Remove the conduit box cover and remove gasket. Assemble gasket onto sensor assembly. See Figure 1.

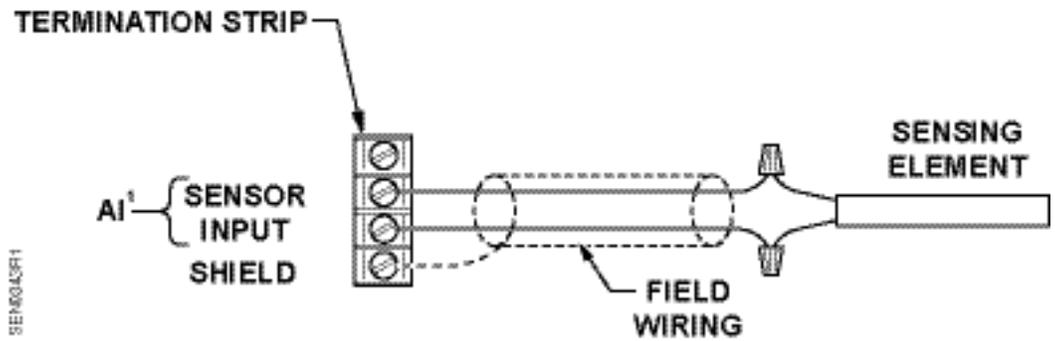
3. Insert the sensor tube into the hole.
4. Hold the conduit box against the duct and secure the sensor to the duct with the two No. 18-8 self-tapping sheet metal screws supplied with the sensor.
5. Attach the flexible conduit and field wiring to the conduit box. Ensure that the conduit and field wiring have enough length to allow the installation/removal of the sensor assembly.



**Figure 1. Duct Point Sensor Installation.**

6. Using the wire nuts provided, attach the sensor wires to the field wiring in the conduit box.
7. Replace the conduit box cover.
8. Connect the field wires to the controller. See Figure 2.

The installation is now complete.



1. Configure the analog input (AI) point for sensor input.

**Figure 2. Wiring to the Controller.**

- NOTE:**
1. Some controllers may require a shield termination.
  - 2 For individual panel wiring details, see the appropriate controller manual.

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