

Immersion Temperature Sensors, 100 Ω Platinum RTD with 4 to 20 mA Transmitter

Product Description

The transmitter-equipped Immersion Temperature Sensor provides a 4 to 20 mA input to a controller. It threads into a coupling on a piping system. The sensor assembly includes an immersion well, 100 ohm platinum RTD sensing element, and a transmitter located in the LB wiring housing. See Figure 1.

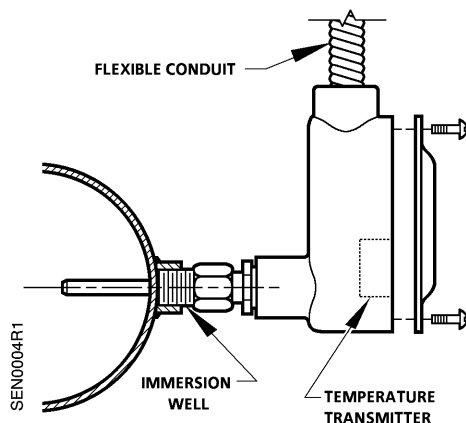


Figure 1. Immersion Sensor.

Product Numbers

Product Number	Sensing Element
536-767-XX	100 Ω Pt RTD 30°F to 250°F (-1°C to 121°C)
536-774-XX	100 Ω Pt RTD 20°F to 70°F (-7°C to 21°C)
544-562-XX	100Ω Pt RTD 32°F to 212°F (0°C to 100°C)
XX	Insertion Length in Inches (mm)
25	2.5 (63.5)
40	4 (101.6)
60	6 (152.4)

Required Tools

- Power screwdriver with 1/4-inch hex extension or medium flat-blade screwdriver
- 1-1/4 inch open end wrench or equivalent adjustable wrench
- Medium crescent wrench
- Pipe sealant
- Wire stripper

Expected Installation Time

3 hours

Prerequisites

- The appropriate field wiring within the maximum wiring run length for the individual field panel or equipment controller must be in place.

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

- A 1/2-inch NPT mounting coupling must be installed in the piping system at the sensor location. Figures 2 and 3 show two types of installation: pipe surface and pipe joint.
- Be sure you have the correct temperature range sensor for the point location.

Instructions

NOTE: It is not recommended or necessary to separate the well and the wiring housing to install the sensor assembly. The LB wiring housing should only be removed to replace a damaged or defective sensing element.

1. Clean any dust away from the coupling for the well.
2. Apply pipe sealant to the threads of the well and insert the entire sensor assembly into the coupling.

