

Liquid Immersion Temperature Sensors Component Kit

Product Description

The Component Kit (well not included) is designed for installation into a 2-1/2, 4, or 6-inch well. The sensor in the kit provides a temperature input to a controller.

Contents

Description	Quantity
Pulling elbow	1
Sensor	1
Sensor support tubes	3
Spring	1
Spring retaining washer	1
Wire nuts	2
Thermal compound	2

Product Numbers

536-777-RK NTC 100K Ω NTC
544-577-RK Pt 1000 Ω , (375 α)

Required Tools

- Medium flat-blade screwdriver
- 1-1/4 inch open end wrench or equivalent adjustable wrench
- Pliers or channel-locks
- Wire stripper

Expected Installation Time

28 minutes

Prerequisites

- Read these instructions before beginning.
- The immersion well(s) must be previously installed and field wiring pulled to a termination point near the well.

Installation

Installing a sensor assembly into a well

1. Disconnect one of the leads of the field wiring from the termination board or block at the controller.
2. Uncoil the sensor leads and remove the plug from the well.
3. Select the appropriate length sensor support tube for the well being serviced.
4. Assemble the spring and spring retaining washer onto the sensor support tube and pass the lead wires of the sensor through the tube. See Figure 1.

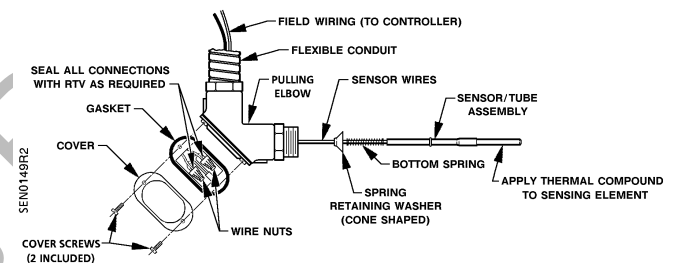


Figure 1. Sensor Assembly.

5. Coat the sensor with thermal compound and insert the assembly into the well.
6. Remove the cover and gasket from the pulling elbow.
7. Wrap the treads of the pulling elbow with Teflon[®] tape or equivalent.
8. Thread the sensor leads through the male end of the pulling elbow and out through the cover opening.
9. Screw the pulling elbow into the well.
10. Install wiring conduit, flex or rigid, between the field utility box and the pulling elbow.

11. Run field wiring through the conduit to the pulling elbow and connect the field wiring to the sensor leads using the wire nuts provided.

NOTE: In applications where condensate may accumulate (chillers, low temperature sensing, etc.), seal all wire nut connections with RTV (part number 535-495), ordered separately.

12. Reinstall the gasket and cover onto the pulling elbow.

13. Reconnect the wiring lead disconnected in Step 1.

The installation is now complete

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