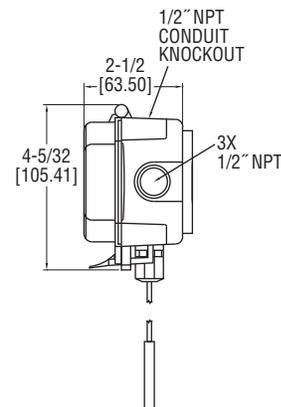
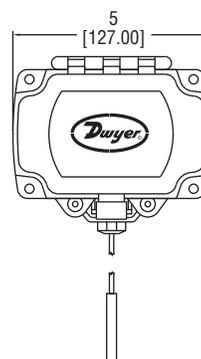




Series WTP-R Wireless Remote Probe Temperature Sensors

Specifications - Installation and Operating Instructions



The Series WTP-R Wireless Remote Probe Temperature Sensors can be used to monitor surface temperature of water lines or in locations where space is limited. For greater flexibility, the enclosure for the electronics can be mounted up to 25' from the temperature measurement point. By sampling the temperature measurement every 10 seconds, the 3.6V lithium battery is able to power the unit for up to 8 years.

A reliable 418 MHz signal can carry the measurements up to 100 feet without a repeater. With the optional 900 MHz repeater, measurements can be transmitted up to 1000 feet away.

MOUNTING

Mount unit to surface using four #10 screws through the holes in the mounting feet. For concrete or cinder block, pre-drill four 5/32" (4 mm) holes to 1-3/4" (45 mm) depth. On duct models, only compress gasket half of original thickness.

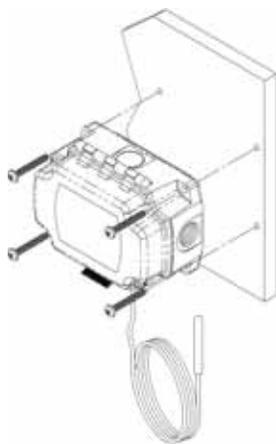


Figure 1: Mounting Diagram

SPECIFICATIONS

Temperature Range: -40 to 185°F (-40 to 85°C).

Accuracy: ±0.2°C.

Temperature Limits: 32 to 140°F (0 to 60°C).

Humidity Limits: 5 to 95% RH non-condensing.

Power Requirements: 2 AA 3.6V lithium batteries.

Transmitter Interval: Approximately 10 seconds.

Housing Material: ABS plastic.

Enclosure Rating: UL 94 V-0, NEMA 4X.

Antenna: 418 MHz - Built inside enclosure.

Weight: 0.85 lb (386 g).

FCC Approval: FCC ID# T4F06811RH.

Agency Approvals: RoHS.

NOTICE

When inserting batteries, observe polarity markings inside unit for proper operation.

NOTICE

It is best to train output modules before mounting the transmitters.

Training Output Models

- Attach desired output modules to receiver as described in output module manual.
- Apply power to the receiver and output modules (LED on receiver should be lit. LED on output module will flash and go out).
- Open the cover of sensor and install the batteries (observe polarity). LED next to the transmitter training button will flash every 10 seconds.
- Press and hold the plastic service button on the output module to be programmed. At the same time, press for one second and release the button on the sensor. When the LED on the output module lights, release the service button. The LED on the output module will go out after the button is released.
- Output module LED will flash when it receives data from sensor.
- Close cover when all of the output modules have been trained.

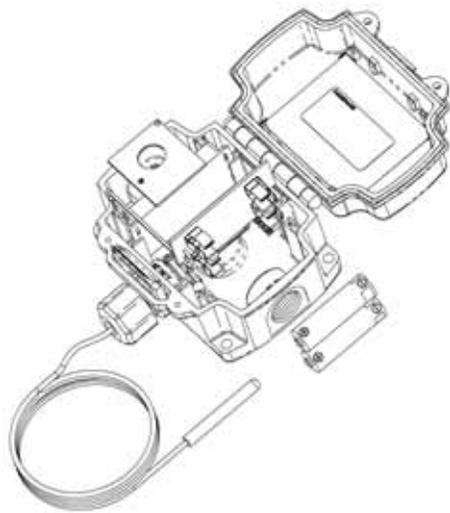


Figure 2: Battery Polarity

DIAGNOSTICS

| Error | Required Action(s) |
|--|---|
| Temperature or humidity reading is incorrect | <ul style="list-style-type: none"> • Check wire from output modules to controller for proper connections and polarities. • Check to see if the controller's software is configured correctly. • Check transmitter to see if its LED flashes every 10 seconds. If not, change batteries. • Check power to the receiver and output module. • Check output module LED. If blinking fast, retrain output module. |
| Temperature reading is coming out of wrong output module | <ul style="list-style-type: none"> • Retrain output module. |

MAINTENANCE, CLEANING AND REPAIR

After final installation of the unit, no routine maintenance is required. A periodic check of the system calibration is recommended. The Series WTP-R is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.