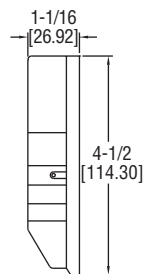
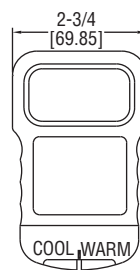


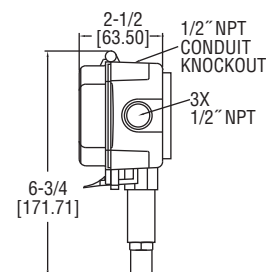
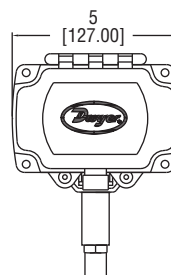


Series WHP Wireless Humidity/Temperature Sensors

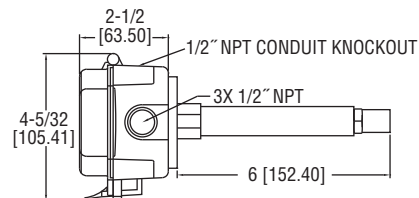
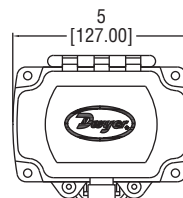
Specifications - Installation and Operating Instructions



WALL MOUNT



OSA MOUNT



DUCT MOUNT

The Series WHP Wireless Humidity/Temperature Sensors provides flexibility in locating sensors and reduces wiring cost. Using a 418 MHz transmitter, the sensor can transmit data up to 100 feet without the use of a repeater. When coupled with a receiver and output module, the Series WHP can output voltage, current or resistance values for humidity and temperature. Since the unit is battery powered using two AA batteries, users can change the location of the sensor to a different wall or duct without worry about extra wiring cost. With the transmit rate at approximately one reading every 10 seconds, the battery is estimated to last 5 to 8 years.

The duct mount and outside air mount sensors come standard with sintered filters to protect the sensor from particulates. Set point adjustment and/or manual override buttons are available on wall mount sensors.

SPECIFICATIONS

Relative Humidity Range: 0 to 100%.

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

Accuracy: $\pm 0.3^{\circ}\text{C}$, $\pm 2\%$ RH.

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

Power Requirements: (2) AA 3.6V lithium batteries.

Transmitter Interval Rate: Approximately 10-15 seconds.

Housing Material: ABS plastic.

Enclosure Rating: UL 94 V-0.

Antenna: 418 MHz - Built inside enclosure.

Weight: Dust/OSA: 1.25 lb (567 g); Wall: 0.25 lb (113 g).

FCC Approval: FCC ID# T4F061213RSO.

Agency Approvals: RoHS.

NOTICE

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

MOUNTING

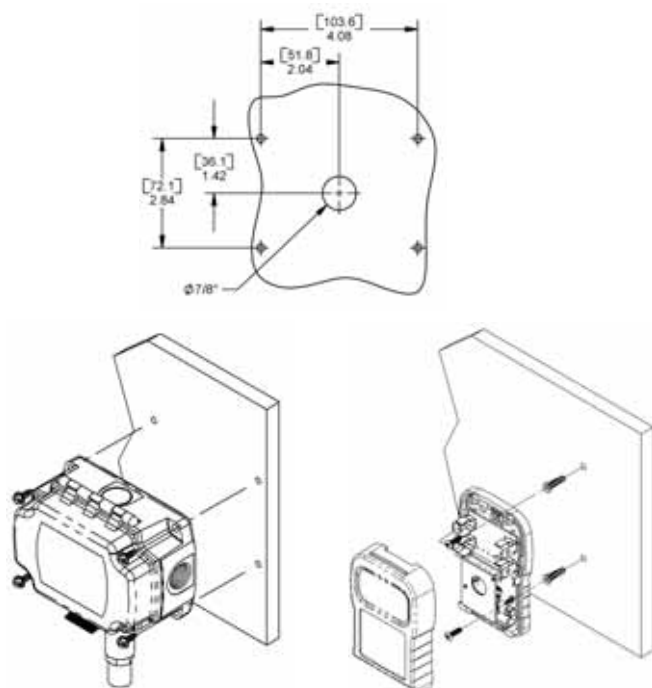


FIGURE 1: Mounting Diagram

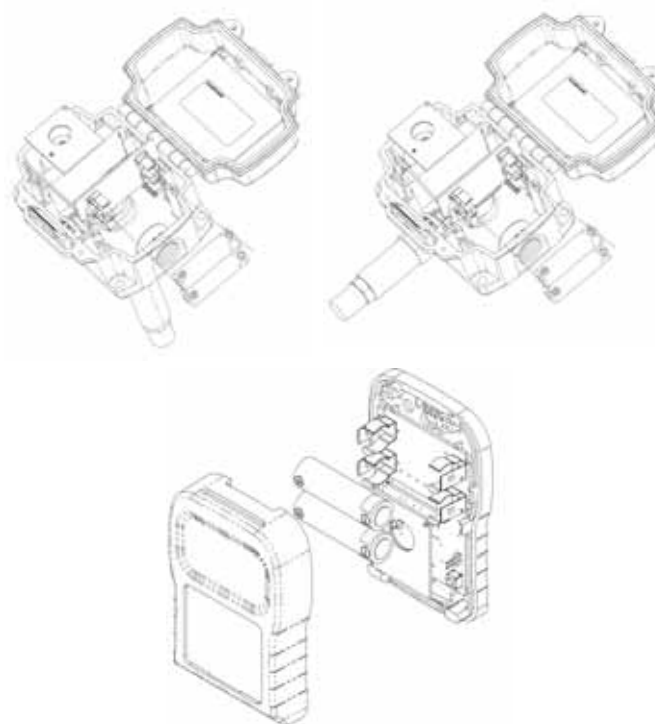


FIGURE 3: Battery Polarity

OSA/Duct Sensors

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. For OSA models, follow orientation as shown in Figure 2.

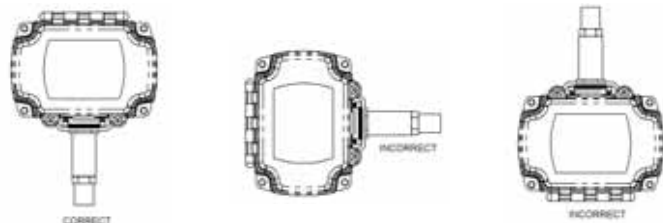


FIGURE 2: OSA Mounting Orientation

Wall

Use the base plate to mark two holes on the surface that the sensor will be mounted. Drill two 3/16" holes in the center of each marking. Insert drywall anchor into each hole. Attach back plate to surface using the provided #6 screws into anchors. Attach cover and use Allen wrench to tighten locking screw until it is flush with bottom of cover.

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).
- Remove 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.
- Use same procedure for other modules.
- Close cover when all of the output modules have been trained.

DIAGNOSTICS

Error	Required Action(s)
Temperature or humidity reading is incorrect	• 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 or humidity reading is coming out of wrong output module	• 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 WHP 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.