



TH Series

Relative Humidity Transmitter

Description

The TH Series relative humidity transmitters provide a two-wire, 4 to 20 mA output scaled from 0 to 100% RH. The transmitters are available in wall, duct or outdoor mounting configurations which are suitable for most HVAC applications.

Mounting

WALL MOUNT

The wall mount model is designed to be installed indoors, mounted on a 2" x 4" conduit box and secured directly to block or drywall in a vertical position. The unit should be mounted on an interior wall approximately 5' above the floor. Choose a location that provides a reading typical of average conditions. Avoid areas that are unventilated, near windows or open doors and areas that are exposed to direct sunlight or unusual heat sources.

OUTDOOR MOUNT

Outdoor mount models are provided pre-assembled in a standard weather resistant enclosure. For direct outdoor mounting, select northerly exposed exterior walls, away from direct sunlight and under an eave or any structure that provides protection from harsh weather. Always mount the sensing probe pointing downward. All necessary mounting hardware is included. Use teflon pipe tape or RTV to ensure conduit connections are suitable for outdoor wiring. Special care should be taken to ensure that the foam gasket has a secure, uniform and watertight fit on all sides.

DUCT MOUNT

The duct mount is designed to be mounted directly to the duct. Mount supply air RH transmitters away from condensation points or areas of extreme saturation.

1. Drill a hole in the duct with 1" hole saw.
2. Remove the cover and insert the sensing probe into the duct.
3. Secure the junction box vertically with the four #10 sheet metal screws provided. An optional flange mounting plate is available. (part #TQ1102)

Wiring

Power / Output

1. Connect the positive (+) lead of the power supply to the positive (+) terminal of the transmitter.
2. Connect the negative (-) terminal of the transmitter to the positive (+) input of the controller or monitoring device.
3. Connect the negative (-) input of the controller to the ground lead of the DC power supply.

If you are using a built in power supply of the controller:

1. Connect the positive (+) and negative (-) terminals of the transmitter to the respective power and channel input of the controller or monitoring device.