

## Title: RH-Temp Combo Sensor 203-5752 Installation

### Overview

This document will illustrate how to wire the relative humidity (RH) and temperature combination sensor.

### Mounting Location

Mount the sensor indoors in a central location within the zone to be measured, away from doors, windows, vents, heaters, and outside walls that could affect temperature readings. The sensor should be mounted at eye level or close to that.

### Installation

Insert a screwdriver into the gap in the bottom side of the sensor enclosure to separate the front sensor from the rear mounting plate.

1. Remove the knockouts above the wiring connectors in the mounting plate so sensor cables can be run into the back of enclosure (see Figure 1).
2. Use the mounting holes in the back plate to mount the plate on a junction box, or against a wall or riser. (*Do not mount the plate upside down or sideways. Mount plate with terminal blocks at the bottom*).
3. If necessary, drill or cut a hole in the wall to allow sensor cable to run through the wall into the back of the mounting plate. **Note:** Make sure to seal the opening.
4. Must use either a 3 and 2-wire conductor cable or a 5-wire conductor cable. Do not tie the 0V's together.
5. Wire RH Sensor to Power (+12vdc), Voltage COMMON, and RH Out terminals (Signal).
6. Set jumper to 0-5VDC (see Figure 2).
7. Wire Temperature sensor to the RTD terminals.

**NOTE:** There is a newer version of the 203-5752 that is in circulation as of spring 2021 (see figure 3.)

### Specifications

| General                          |                                  |
|----------------------------------|----------------------------------|
| Input Power                      | +12VDC                           |
| Enclosure                        | High-impact plastic              |
| Relative Humidity (RH) - Details |                                  |
| Sensing Element                  | Digitally profiled capacitive    |
| RH Accuracy                      | ±3% RH over the range 20%-90% RH |
| Stability                        | <0.5% RH per year                |

| Operating Range              | 0-100% RH                         |
|------------------------------|-----------------------------------|
| Analog Output                | 0-5VDC; 3-wire (observe polarity) |
| Scaling                      | 0-100% RH (0-5VDC/0-10VDC)        |
| Temperature Sensor - Details |                                   |
| Accuracy                     | ±0.4°F from 32°F to 140°F         |
| Analog Out                   | Resistive, 2-wire, no polarity    |

Table 1. Sensor Specifications

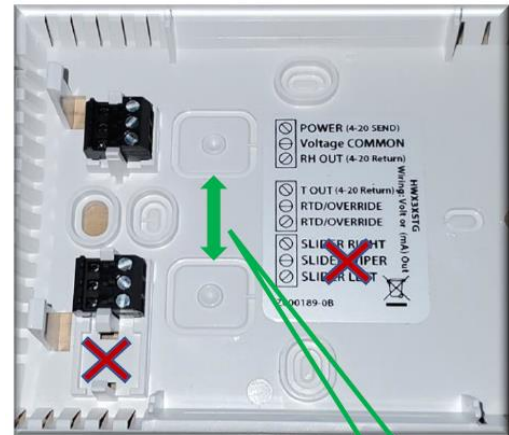


Figure 1. Mounting Plate and Terminal Connections



Figure 2. Jumper



Figure 3. 2021 Version