

Re-Calibration of Peet Bros. Humidity Sensors (Field Procedure)

Procedure Courtesy of
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Items Required: Jeweler's Screwdriver
 Small Philips Screwdriver
 Humidity Standard (instrument displaying correct RH% at your location)

NOTE: Humidity readings vary by location. A reading from the airport or weather bureau is not likely to be the same as that for your location.

Procedure

1) Open Humidity Sensor Housing by removing the four Philips screws from the bottom of the housing. Some models pry open.

2) Determine the amount of correction as follows: Subtract the humidity reading displayed on the weather station keyboard from the reading of your humidity standard. Multiply the difference by .35 to get the required number of turns of the calibration potentiometer. Turning the set screw clockwise, it decreases the dew point/rh and a counter-clockwise turn increases the dew point/rh.

Example: Weather Station Reading 42%
 Humidity Standard Reading 49%
 $(49 - 42) \times .35 = 2.45$ turns (counter-clockwise)

3) Unplug the Humidity Sensor cable from the junction box (outdoor model) or keyboard/display (Indoor model) Wait until the humidity reading displayed on the keyboard is "----%".

4) Locate the blue calibration potentiometer on the circuit board. Using the jeweler's screwdriver, rotate the brass screw on the top of the potentiometer by the required number of turns (clockwise to decrease the humidity reading displayed on the weather station, counter-clockwise to increase it).

An adjustment of 1/4 to 1 full turn maximum in 24 hours is the most effective way to re-calibrate.

5) Plug in the cable and wait for a humidity reading to appear on the keyboard/display (about 20 seconds). Completely reassemble and observe the dew point/rh for 24 hours. If necessary make additional adjustments.

