

Humidity Sensor Calibration

These calibration notes are applicable to the following products:

58-N-1201-TH-N
58-N-1201-TH-R
58-N-1101-TH-N
58-N-1101-TH-N

The IDEAL Wireless Sensors utilize stable, long life sensors that require no calibration. The humidity sensor accuracy is rated at +/- 3%RH (11% to 89% RH) and a long term stability of +/- 0.25%RH per year.

The IDEAL Wireless Sensors have no field serviceable parts or adjustments. If the device drifts out of calibration it will need to be returned to IDEAL INDUSTRIES, INC. for repair or replacement.

Calibration Verification Procedure – This procedure can be used to determine if the device is out of calibration

1. Find a suitable test location
 - Perform the testing within an environment that has a stable temperature and humidity.
 - The test environment should have a humidity between 11% and 89%RH and a temperature between 0-50C (32-122F)
 - Make sure the vents on the side of the sensor are not blocked when placed into the test environment
 - If the sensor is moved for testing, give the sensor time to stabilize in the test environment – The sensor should be in the test environment for a minimum of 5 minutes. Longer times may be required if there is a large delta in temperature or humidity between locations
2. Use a wet/dry bulb to determine Relative Humidity in the test environment
3. Compare to reading from sensor under test. (Make sure dt is < 75)
4. If the difference between the values obtained in steps 2 and 3 is more than +/- 5%RH the device may be returned to IDEAL INDUSTRIES INC. for repair/replacement

If the device is found to be out of calibration and is within the 3 year warranty period IDEAL INDUSTRIES INC. will repair/replace the device at no charge. If the device is outside the 3 year warranty period IDEAL INDUSTRIES INC. will charge a service fee to repair/replace the device. Please contact IDEAL INDUSTRIES INC. for a quote.

