



# Wagner Meters 890-00080-001 Floor Sentry Embedded Data Logger Instruction Manual

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**Wagner Meters 890-00080-001 Floor Sentry Embedded Data Logger**



## Product Information

- **Specifications**

- **Brand:** Wagner Meters
- **Product Name:** Floor Sentry
- **Function:** Monitors temperature and relative humidity (RH) within wood flooring
- **Connectivity:** Bluetooth-enabled for wireless notifications to mobile devices

## Product Usage Instructions

- **Installation**

- The Floor Sentry is designed to be installed within the wood flooring for monitoring temperature and RH. Follow these steps for installation:
  - Use the included installation template to create a cavity in the underside of a floor plank.
  - Install the Floor Sentry in the cavity and secure it properly.
  - Complete the installation by placing the plank back in its original position.

- **Using the Wagner Sentry App**

- To access and monitor data from the Floor Sentry, follow these steps:
  - Download the Wagner Sentry app from the Apple App Store or Google Play Store.

- Open the app and assign a unique name to your Floor Sentry device.
- Adjust the settings as needed and confirm the installation of the device within the app.
- You can now monitor temperature and RH data at your preferred frequency through the app.

## FAQs

- **Q: Why is it important to monitor temperature and RH in wood flooring?**
  - **A:** Monitoring temperature and RH helps prevent damage to wood flooring such as cupping, splitting, and crowning due to unfavourable ambient conditions.
- **Q: How does the Floor Sentry alert users of potential issues?**
  - **A:** The Floor Sentry sends wireless notifications to mobile devices when temperature or RH levels exceed safe limits, providing timely alerts to users.
- **Q: Can the Floor Sentry be used in different types of wood flooring?**
  - **A:** Yes, the Floor Sentry can be installed in various wood flooring types to monitor environmental conditions effectively.

## CONGRATULATIONS!

- With the Floor Sentry, you have purchased an advanced, state-of-the-art device that operates directly inside your wood floor.
- The Floor Sentry monitors temperature and relative humidity (RH) and serves as a data logging device that creates a historical record of temperature and RH.
- If either the temperature or the RH falls outside the desired range for proper floor care and/or avoiding potential floor damage, the Floor Sentry alerts you by automatically delivering notifications wirelessly to your mobile device.
- Just like your mobile device, the Floor Sentry is Bluetooth-equipped, so you must be within Bluetooth® range to receive Floor Sentry notifications for either temperature or RH-related issues.

## WHY FLOOR SENTRY?

- Installing a Floor Sentry with your new wood floor helps protect your investment. Wood flooring may be at risk of damage or catastrophic failure if exposed to unfriendly ambient conditions.
- This unwanted exposure can occur either from inside your home or building or from the underside of the flooring (what is often called the subfloor).
- Your natural, wood-based floor is part of an overall system that consists of (1) the finished floor itself, (2) the subfloor that the flooring is installed over, (3) the ambient environment above the flooring (the inside environment of the room or building), and (4) the environment that the underside of the subfloor is exposed to (typically, a crawl space or concrete slab foundation).

## Keep in mind:

- If ambient conditions, primarily temperature and RH, go beyond safe limits for extended periods, significant damage to your wood flooring may occur.
- Types of damage may include cupping, splitting, crowning, etc.
- The Floor Sentry's purpose is to help prevent serious wood flooring problems. With its advanced technology, the Floor Sentry continuously monitors the temperature and RH of the wood flooring and the underlayment/subfloor.

- Installing the Floor Sentry on your floor gives peace of mind that you will automatically receive alerts or notifications on your mobile device if environmental conditions go beyond safe limits.

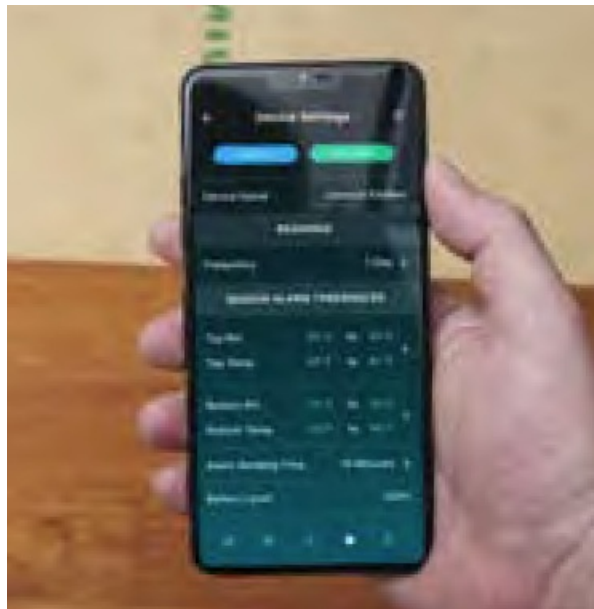
## QUICK START

Getting started with your new Wagner Floor Sentry is as easy as 1-2-3.

- **Step 1.** Install the Floor Sentry in your wood flooring using the included installation template. Simply follow the instruction procedures and dimensions provided with the template.



- **Step 2.** Download the Wagner Sentry app from either the Apple App Store or Google Play.



- **Step 3.** Open the app, give your Floor Sentry device its unique name, adjust the default settings (as needed), click the Device Installed button on the Device Settings screen, and you are ready to begin monitoring temperature and RH at whatever frequency you desire.

## INSTALLATION

- The Floor Sentry is small enough to be installed in a cavity in the underside of a one-floor plank.

- A cavity is created by routing using a woodworker's router tool.
- The Floor Sentry is installed in this cavity and then the plank is installed as normal.

**Guidelines for determining the number of Floor Sentry devices to install:**

- Place one Floor Sentry for every 1,000 square feet, and at least one on each story or level.
  - If the floor has radiant heating zones, then install one Floor Sentry for each heating zone.
1. Use the installation template included with your Floor Sentry as a guide to route out a cavity in the underside of a wood flooring plank. Rout the cavity from the middle of the board (not from the side) using a 0.5" diameter plunge router bit. Ensure at least 0.125" (1/8") of top flooring material is left above the cavity, to help prevent undue stress if walked upon after installation. Install the Floor Sentry in an area that is expected to receive at least some foot traffic, such as a hallway. In high-use areas, it is recommended that the Floor Sentry be installed off to the side and not in the main line of traffic. Be sure to install away from area rugs, furniture, or other heavy objects. The dimensions of the cavity to route should be at least 2.1" (5.3 cm) wide, 3.8" (9.7 cm) long, and 0.38" (9.7 mm) deep. With these allowances, the minimum floor plank thickness would be 0.425" (10.8 mm) thick.



2. Once the cavity has been routed and cleaned of sawdust or other debris, first "dry fit" the Floor Sentry into the cavity to ensure proper clearance. Then remove the release liner from the butyl seal and install into the cavity with the butyl seal side adhering to the wood at the bottom of the cavity.



**IMPORTANT:**

- When installing the floor plank into the rest of the floor system, make sure that no adhesives or other construction-related materials interfere with the underside of the Floor Sentry.
- Keep in mind that each side (both top and bottom) of the Floor Sentry contains a sensor.
- Be sure to note and record the location of the Floor Sentry installation for future reference.

## USING THE WAGNER SENTRY APP

- To receive notifications that your wood flooring is at risk due to unfriendly ambient conditions, you will need to use the Floor Sentry device with the Wagner Sentry app.
- The app can be downloaded for free from either the Apple App Store or Google Play.
- For step-by-step instructions on using the app, please consult “How to Use the Wagner Sentry Mobile App” at: [www.wagnermeters.com/wagner-sentry-tutorial](http://www.wagnermeters.com/wagner-sentry-tutorial).



## SUMMARY OF FLOOR SENTRY FEATURES

- Top and bottom sensors that measure temperature and RH
- Bluetooth capability
- Free, highly intuitive Wagner Sentry app for both iOS and Android devices
- Alerts or notifications when RH or temperature are outside the user-defined alarm threshold
- Installation template with instructions and dimensions
- Capability to store over 16,000 readings
- Long-life pre-installed battery
- Battery health indicator (see Settings page)
- 1-year warranty
- Lifetime customer support

## SPECIFICATIONS

Frequency	2.4 GHz
Protocol	BLE 5
Typical Read Range	up to 20 ft or 6 meters
Dimensions	51 mm x 95.45 mm x 8.5 mm

Weight	37.75 g, 1.33 oz.
Lifetime of Battery Pack	Up to 8 years (depending on the frequency of logging)
Storage Capacity	16,384 readings
Measurement Interval	1 second to 136 years

## SENSOR SPECIFICATIONS

<b>Humidity</b>	
Accuracy Tolerance <sup>1</sup>	±3% RH (typ.)
Resolution	0.1% RH

<b>Temperature</b>	
Accuracy Tolerance <sup>1</sup>	±0.1° C (typ. 20° C to 60° C)
Resolution	0.1° C (typ.)
Repeatability <sup>2</sup>	0.04° C (high, typ.)

### From Sensirion datasheet:

1. For a definition of typical and maximum accuracy tolerance, please refer to the Sensirion Sensor
2. Specification Statement found at <http://bit.ly/SensirionPDF>.
3. The stated repeatability is 3 times the standard deviation of multiple consecutive measurements at the stated repeatability and constant ambient conditions. It is a measure of the noise on the physical sensor output. Different measurement modes allow for high/medium/low repeatability.

## WARRANTY

- Wagner Meters' warranty offers this product protection against defects in material and workmanship for one (1) year from the date of purchase on your Floor Sentry, subject to the following terms and conditions:
- Wagner Meters' liability under this warranty shall be limited, at Wagner Meters' option, to the repair or replacement of this product or any part thereof, which is demonstrated to be defective.

- To exercise this warranty, visit [www.wagnerrepairs.com](http://www.wagnerrepairs.com) for instructions.
- This limited warranty does not apply if Wagner Meters determines that the product has been damaged by accident, negligent handling, misuse, alteration, damage during shipment, or improper service not attributed solely to the actions of Wagner Meters.
- Wagner Meters' liability for any defect in material or workmanship in this product shall be limited to the amount of purchase price of the product.
- With proper care and maintenance, the Floor Sentry's top and bottom sensors should maintain their accuracy; however, because
- Wagner Meters has no control over how the unit will be used, it makes no guarantee that the sensors will maintain their accuracy for any specific period.
- This warranty is instead of all other warranties, whether oral or written, express or implied.
- THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.
- WAGNER METERS HEREBY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- Under no circumstances shall Wagner Meters be liable for any incidental or consequential damages.
- Agents and employees of Wagner Meters are not authorized to make modifications to this warranty or additional warranties binding on Wagner Meters. Accordingly, additional statements, whether oral or written, except written statements from an officer of Wagner Meters, do not constitute warranties and should not be relied upon by the customer.

## TECHNICAL SUPPORT

### TECHNICAL SUPPORT AND REPAIR CONTACT

- **Call Worldwide Toll-Free:** (844) 755-3364

## GLOSSARY OF TERMS

- **Relative Humidity (RH):** The amount of water vapour in the air, expressed as a percentage of the maximum amount that the air could hold at the given temperature.
- **Temperature:** The degree or intensity of heat present in a substance or object, especially as expressed according to a comparative scale and shown by a thermometer or perceived by touch.


## CONTACT

- Kevmor Trade Supplies
- 11 Belmont Avenue, Belmont WA 6104
- **P:** 08 9277 7177
- **E:** [sales@kevmor.com.au](mailto:sales@kevmor.com.au).
- **W:** [kevmor.com.au](http://kevmor.com.au).
- 500-00080-001 REV A

change without notice.

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## Documents / Resources

 The image shows a hand holding an orange and white electronic device, the Wagner Meters Floor Sentry Embedded Data Logger. Above the device is the logo for 'FLOOR SENTRY BY WAGNER METERS'. Below the device, the text 'INSTRUCTION MANUAL' is visible.	<p><a href="#">Wagner Meters 890-00080-001 Floor Sentry Embedded Data Logger</a> [pdf] Instruction Manual</p> <p> </p> <p>890-00080-001 Floor Sentry Embedded Data Logger, 890-00080-001, Floor Sentry Embedded Data Logger, Sentry Embedded Data Logger, Embedded Data Logger, Data Logger, Logger</p>
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## References

- [bit.ly/SensirionPDF](https://bit.ly/SensirionPDF)
- [Wholesale Flooring Tools & Installation Supplies | Kevmor](#)
- [Wagner Meters - World Leader In Moisture Measurement](#)
- [Wagner Meters Repairs |](#)
- [User Manual](#)

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