

INSTRUCTIONS FOR THE ANDROID™ AND iOS® APP

User Manual
**SMART
LOGGER**^{V2}[™]



INSTRUCTION MANUAL

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CONGRATULATIONS!

The Wagner Meters Smart Logger™ V2 is a low-energy temperature and humidity data logger featuring the latest Bluetooth® 5.0 technology and a NRF52832 chip. It collects temperature and relative humidity readings from the surrounding environment and records them as historical data. The Smart Logger V2 can store up to 16,384 temperature and relative humidity measurements. Any smartphone or smart device with Bluetooth 5.0 or above can download and install the accompanying app to store and monitor the temperature and relative humidity of the environment as conditions change. The Smart Logger V2 is small, lightweight, portable, and highly accurate for a wide variety of uses within the construction industry, cold chain logistics, archives, labs, museums, and much more.



QUICK START

Step 1. Place your Smart Logger V2 device in your desired location that you want to monitor temperature and relative humidity in.

Powering On/Off

Operation	LED Sequence	Event Description
Button press for 2 seconds	Green LED on for 2 seconds	Device is starting up
Button press for 2 seconds	Red blinking twice for one second	Device is shutting down

Operation	LED Sequence	Event Description
	Green LED blinking every 10 seconds	Device is broadcasting

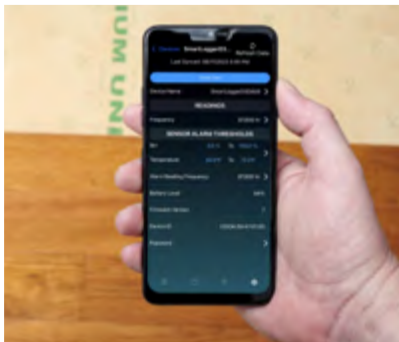
Step 2. Download the Wagner Sentry app from either the Apple App Store or the Google Play store.



Step 3. Open the app, give your Smart Logger V2 device its own unique name, adjust the default settings, and you are ready to begin monitoring temperature and RH at whatever frequency you desire. The Smart Logger (V1 and V2) has a password feature. The password can be set from the "Device Settings" menu. Once a password has been

set, the user will be prompted to enter the password every time they try to change the settings for that device.

Note: Users can still sync the Smart Logger V2 device and view the data without entering a password. For the Smart Logger V1, the password will have to be entered in order to sync and view the data.



POTENTIAL PRODUCT APPLICATION

1. Construction / building environmental monitoring
2. Wood products shipping and transport
3. Perishable item (food, medicine, flowers, etc.) transport
4. Refrigerated storage and shipping

5. Archive rooms / vaults
6. Laboratory testing and storage rooms
7. Museum displays and storage

USING THE WAGNER SENTRY APP

To view device data or to receive notifications that your project is at risk due to unfriendly ambient conditions, you will need to use 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: wagnermeters.com/wagner-sentry-tutorial



SUMMARY OF SMART LOGGER FEATURES

1. Bluetooth® 5.0 compatible
2. Built-in highly sensitive temperature and relative humidity sensor
3. Stores up to 16,384 entries of temperature and relative humidity data

4. Programmable intervals of temperature and relative humidity data storage and alarm thresholds
5. Email reports directly from the Wagner Sentry app



SPECIFICATIONS

Frequency	2.4 GHz
Protocol	BLE 5
Typical Read Range	Up to 150 ft. or 46m
Dimensions	Length: 2.4 in. (60mm) Width: 2.6 in. (67mm) Height: 0.6 in. (16mm) Height, with double-stick adhesive pad: 0.8 in. (20mm)

Weight	1 oz (30g)
Battery Life of Replaceable CR2450 Coin Cell	Up to 3 years (depending on frequency of usage)
Storage Capacity	16,384 readings
Measurement Interval	1 second to 136 years

SENSOR SPECIFICATIONS

HUMIDITY

Accuracy Tolerance	$\pm 1.5\%$ RH (typ.)
Resolution	0.1% RH
Repeatability	0.08% RH

TEMPERATURE

Accuracy Tolerance	$\pm 0.1^\circ$ C (typ. 20° C to 60° C)
Resolution	0.1° C
Repeatability	0.04° C (typ.)

FROM SENSIRION DATASHEET

For the definitions of typical and maximum accuracy tolerance, please refer to the Sensirion Sensor Specification Statement found at <http://bit.ly/SensirionPDF>

The stated repeatability is 3 times the standard deviation of multiple consecutive measurements at the stated repeatability and at constant ambient conditions. It is a measure for the noise on the physical sensor output.

TECHNICAL SUPPORT AND REPAIR CONTACT

**Call Worldwide Toll-Free:
(877) 945-7440**

GLOSSARY OF TERMS

Relative Humidity (RH): The amount of water vapor 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.

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