



Coiliot

Thermo-Hygrometer

Sense-RS-TH10

Quick Start Guide

Rev. Nov 25, 2025

Introduction

The Coiliot Thermo-Hygrometer measures temperature and humidity and transmits data using 433 MHz GFSK long-range wireless for stronger, more reliable performance than Bluetooth—especially through obstacles. It samples often and also delivers over 1 year of battery life.

Key Features:

- 433 MHz GFSK long-range wireless (more stable than Bluetooth or Zigbee)
- 10-second sampling for responsive updates.
- Low-power design for 1+ year battery life.
- Better penetration through obstacles.
- App + cloud history via Coiliot Sense Gateway.
- Smart alerts (when enabled).

Note:

- Signal may weaken after passing through metal surfaces.
- Requires a Coiliot Sense Gateway for app/cloud features.

In the Kit



Sensor



Quarter-size opener



Ejector



User Manual

Your Sensor (1)

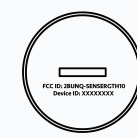
Before you use

Use the quarter size opener to twist the bottom cover and remove the battery insulator.

Layout



(top)



(bottom)

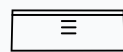
Top

The LED indicator is at top, once the sensor is transmitting data, the LED will be blinking.

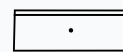
Bottom

The 8-digit device ID is printed at the bottom, it will be used to identify the gateway in the app.

Your Sensor (2)



(front)



(back)

Front

The front of the sensor features ventilation openings that house the temperature and humidity module. For best accuracy, point these openings toward the area where you want to measure temperature and humidity.

Back

On the back of the sensor, there is a small pinhole button. Insert the included SIM ejector tool into the pinhole and **press and hold for about 3 seconds to enable High-Frequency Transmit Mode.**

In this mode, the sensor transmits once every 10 seconds for approximately 2 minutes, which can help the gateway/receiver pick up the signal more easily during setup or troubleshooting.

Checklist

PRE-REQUISITES

- ✓ Battery insulator removed
- ✓ Smartphone (iOS or Android)
- ✓ Coiliot Sense App Installed
- ✓ Coiliot Sense gateway paired and powered on
- ✓ Sensor within signal range of the running gateway



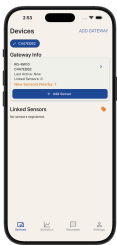
Scan to download the latest version of this user manual.



Scan the code for your device to download.



Add Sensor



(a)

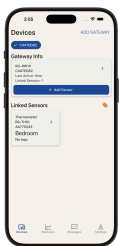


(b)



(c)

(b) Double check the listed ID and the Device ID on the bottom of the sensor, select the listed sensor.
(c) Confirm the sensor information and click confirm to add the sensor to your account.



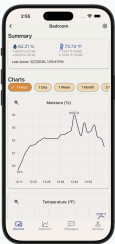
(d)

(d) Device home screen with a newly added sensor.

App Functions



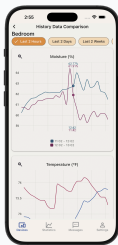
Check real time data



Check data summary & trend



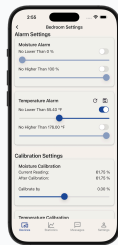
View detailed history



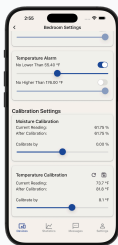
Compare history data



Compare device data



Set alert



Manual Calibrate



Alert in app



Email alert

Specs

Product	Sense Thermo-Hygrometer
Model	Sense-RS-TH10
Battery Type	CR2450
Radio Frequency	433.92 MHz, 200m / 656ft signal range
Dimensions	40 x 40 x 13 mm / 1.57 x 1.57 x 0.51 in
Measure Temp	-40°C to 125°C / -40°F to 257°F
Measure Humidity	0% to 100% RH
Typical Humidity Accuracy	±3.5%
Typical Temperature Accuracy	±0.4°C
Sampling Frequency	Every 10 seconds
Data Transmission Frequency	(a) Every 2 minutes when measuring data is stable. (b) Every 10 seconds when High-Frequency Transmit Mode is triggered (c) Every 10 seconds when measuring data changes rapidly.

Warnings & Safety

Not a medical device. For temperature and humidity monitoring only. Do not use for diagnosis or treatment.

Accuracy depends on placement. Avoid direct sunlight, heaters, vents, and rapid temperature changes. Allow time for readings to stabilize after moving the device.

RF signal limits. Signal may weaken significantly through metal surfaces/enclosures or thick walls. For best results, keep the sensor and gateway/receiver within range and avoid blocking with metal.

Moisture/condensation caution. If used in cold areas (e.g., freezer), condensation may occur when moved to warmer air. Let it dry naturally before continued use.

Do not disassemble or modify. This can cause malfunction, inaccurate readings, or void the warranty.

Battery safety. Use only the CR2450 battery type. Do not short-circuit, crush, puncture, heat, or recharge non-rechargeable batteries. Remove battery for long-term storage to prevent leakage.

Cleaning. Do not immerse in water unless rated waterproof. Clean with a dry or slightly damp cloth only—no solvents.

Stop using and contact support if the device is damaged, overheats, smells unusual, or shows persistent abnormal readings.

Support

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure: This equipment complies with FCC radiation exposure limits. It should be installed and operated with minimum distance 20cm between the radiator & your body.

Contact Us

If you need help or have questions, we are here for you.

Email: support@coiliot.com

Web: <https://www.coiliot.com>