

## ReniCharge TH05

# ReniCharge TH05 WiFi Temperature Humidity Sensor User Manual

Model: TH05 WiFi Version

[Introduction](#)   [Safety Information](#)   [Package Contents](#)   [Product](#)  
[Overview](#)   [Setup](#)   [Operation](#)   [Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

Thank you for choosing the ReniCharge TH05 WiFi Temperature Humidity Sensor. This device provides real-time monitoring of temperature and humidity in your environment, offering smart home integration with Tuya Smart/Smart Life applications and voice control via Amazon Alexa and Google Assistant. This manual will guide you through the setup, operation, and maintenance of your sensor to ensure optimal performance.

## 2. SAFETY INFORMATION

- Read all instructions carefully before use.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity beyond its operating range.
- Do not disassemble or modify the device. This will void the warranty.
- Keep the device away from water and other liquids.
- Dispose of batteries according to local regulations. Do not mix old and new batteries or different types of batteries.
- This device is for indoor use primarily. While it has a compact design, ensure it is placed in a stable location.

## 3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x ReniCharge TH05 WiFi Temperature Humidity Sensor
- 1 x User Manual

*Note: AAA batteries are not included and must be purchased separately.*

## 4. PRODUCT OVERVIEW

The ReniCharge TH05 sensor features a clear display with backlight, showing current temperature, humidity, time, date, and battery status. It is designed for flexible installation on walls or desktops.



The image displays the ReniCharge TH05 sensor and its companion app. The sensor is a white, square-shaped device with a digital display showing the time (10:11), date (11/02), current temperature (23.8°C), and humidity (58%). A color-coded bar below the temperature indicates the comfort level: DRY (red), COMFORT (green), and WET (blue). The sensor also shows a battery status icon. The companion app, titled 'WiFi Temperature & Hu...', is shown on a smartphone, displaying a historical data graph for temperature and humidity over time, with specific data points highlighted for 15:00 (Temperature: 30.4°C, Humidity: 55%).

WiFi zigbee works with Tuya works with Smart Life

FC CE Watermark Thermometer

### WiFi or Zigbee Temperature & Humidity Sensor Backlight Supported

(Zigbee version: Need to work with tuya zigbee hub)

Download on the App Store Download from Google Play works with alexa works with Google Assistant



Image: ReniCharge TH05 WiFi Temperature Humidity Sensor displaying temperature and humidity, shown alongside a smartphone displaying the companion app with historical data. The sensor supports WiFi and integrates with Tuya Smart Life, Alexa, and Google Assistant.

### 4.1 Backlight Function

The sensor features a backlight for improved visibility in low-light conditions. Pressing the reset button will activate the backlight for approximately 10 seconds.

# Backlight Supported

Press the reset button, the backlight will be triggered, and will last for about 10s



Backlight OFF



Backlight ON



Image: A demonstration of the sensor's backlight feature, showing the display both with the backlight off and on, triggered by pressing the reset button.

## 4.2 Flexible Placement

The sensor is designed for versatile placement, allowing it to be suspended on a wall or placed upright on a desktop. It includes a rear hole and bracket design for various installation methods.

## Multiple usage options for walls and desktops

Can be suspended and upright, rear hole and bracket design



Image: Illustrations showing the ReniCharge TH05 sensor mounted on a wall and standing upright on a table, highlighting its flexible installation options.

## 5. SETUP

### 5.1 Battery Installation

1. Open the battery compartment cover on the back of the sensor.
2. Insert three AAA (DC4.5V) batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover. The display should power on.

### 5.2 App Download and Account Registration

1. Download the **Tuya Smart** or **Smart Life** app from the Apple App Store or Google Play Store.
2. Register for a new account or log in with an existing account.

### 5.3 Connecting to WiFi

The TH05 WiFi version connects directly to your 2.4GHz WiFi router (5GHz networks are not supported).

1. Ensure your smartphone is connected to a 2.4GHz WiFi network.
2. Open the Tuya Smart or Smart Life app.

3. Tap the "+" icon in the top right corner to add a device.
4. Select "Sensor" or "Temperature & Humidity Sensor (Wi-Fi)" from the device list.
5. Follow the on-screen instructions to put the sensor into pairing mode (usually by pressing and holding the reset button until the WiFi icon flashes rapidly).
6. Enter your WiFi network password when prompted in the app.
7. Wait for the app to discover and connect to the sensor. Once connected, the WiFi icon on the sensor's display will become solid.

## 5.4 Voice Control Integration (Alexa/Google Assistant)

Once the sensor is connected to the Tuya Smart/Smart Life app, you can link it to Amazon Alexa or Google Assistant for voice control and inquiries.

1. Open the Amazon Alexa or Google Home app.
2. Navigate to the "Skills & Games" (Alexa) or "Works with Google" (Google Home) section.
3. Search for and enable the "Tuya Smart" or "Smart Life" skill/service.
4. Link your Tuya Smart/Smart Life account when prompted.
5. Discover devices. Your ReniCharge TH05 sensor should appear.
6. You can now use voice commands like: "Alexa, what's the temperature in the living room?" or "Hey Google, what's the humidity of the sensor?"

## 6. OPERATION

---

### 6.1 Display Information

The sensor's display shows the following information:

- Current Temperature (°C/°F)
- Current Humidity (%RH)
- Time and Date
- WiFi Connection Status
- Battery Level Indicator
- Comfort Level (DRY, COMFORT, WET)

### 6.2 Backlight Activation

Briefly press the reset button on the back of the device to activate the backlight for approximately 10 seconds.

### 6.3 App Remote Control and Monitoring

The Tuya Smart/Smart Life app allows you to monitor temperature and humidity remotely, view historical data, and set up alerts.

# APP Remote control

Open the mobile phone APP to check the temperature and humidity anytime and anywhere  
(Zigbee gateway is required if choose zigbee sensor)



Image: A smartphone displaying the Tuya Smart/Smart Life app interface, showing real-time temperature and humidity readings from the ReniCharge TH05 sensor.

## 6.3.1 Viewing History Records

The app automatically saves message notifications and allows you to easily view historical temperature and humidity data over days, months, or years.

## VIEW THE HISTORY RECORDS

Automatically save message notifications  
Easily view on and off records

(Zigbee gateway is required if choose zigbee sensor)

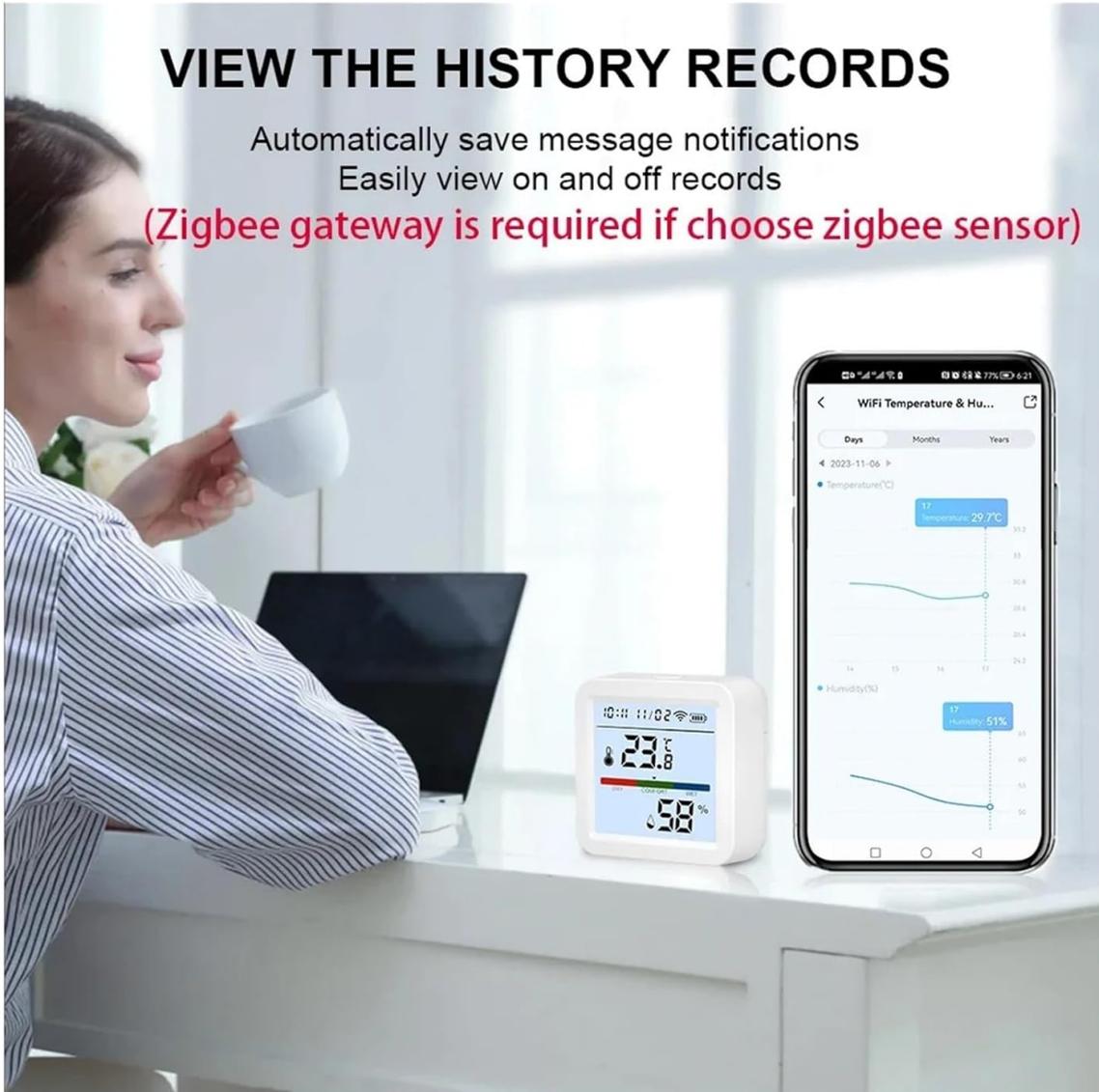


Image: A user viewing historical temperature and humidity graphs on the Tuya Smart/Smart Life app, demonstrating the data logging capability of the ReniCharge TH05 sensor.

### 6.3.2 Setting Alarms

You can set custom temperature and humidity thresholds in the app to receive push notifications when readings go above or below your desired range.

### 6.4 Temperature Format Selection

The app allows you to switch between Celsius (°C) and Fahrenheit (°F) display for temperature readings.

## 7. MAINTENANCE

### 7.1 Battery Replacement

When the low-battery indicator appears on the display or in the app, replace the three AAA batteries promptly to ensure continuous operation. Refer to section 5.1 for battery installation instructions.

### 7.2 Cleaning

Wipe the sensor's exterior with a soft, dry cloth. Do not use abrasive cleaners or allow water to enter the device.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed.	Replace batteries with new AAA batteries, ensuring correct polarity.
Cannot connect to WiFi.	Incorrect WiFi password; sensor too far from router; 5GHz WiFi network used; sensor not in pairing mode.	Verify WiFi password; move sensor closer to router; ensure you are connecting to a 2.4GHz network; reset sensor and re-enter pairing mode.
Inaccurate temperature/humidity readings.	Sensor placed in direct sunlight, near heat/cold sources, or in a draft.	Relocate the sensor to a stable environment away from direct influences. Allow time for readings to stabilize.
No data updates in app.	WiFi connection lost; app not running in background; reporting cycle set too long.	Check WiFi connection; ensure app has background refresh permissions; adjust reporting cycle in app settings (default 120 min).

## 9. SPECIFICATIONS

# Product Parameters



Connection Way  
**WiFi+Bluetooth**

Input Voltage  
**DC4.5V LR03\*3**  
**(NO Included)**

Wireless Type  
**2.4GHz IEEE 802.11b/g/n**

Temperature Measure range  
**-10°C ~ 55°C**

Humidity Measure Range  
**10%-90%RH**

Quiescent current  
**≤ 30uA**

Image: A detailed graphic outlining the product parameters of the ReniCharge TH05 sensor, including connection type, input voltage, wireless type, measurement ranges, and quiescent current.

- **Model:** TH05 WiFi Version
- **Connection Type:** WiFi (2.4GHz, 802.11b/g/n)
- **App Support:** Tuya Smart / Smart Life
- **Voice Control:** Amazon Alexa, Google Assistant
- **Input Voltage:** DC4.5V (3 x AAA batteries, not included)
- **Working Temperature Range:** -10°C to 55°C (14°F to 131°F)
- **Working Humidity Range:** 0% to 99.9% RH
- **Temperature Accuracy:** ±0.6°C (adjustable)
- **Humidity Accuracy:** ±6% RH (adjustable)
- **Quiescent Current:** ≤ 30uA
- **Dynamic Current:** 55mA
- **Low-Battery Reminder:** Yes (at 2.7V)
- **Reporting Cycle:** 120 minutes (adjustable via app)
- **Product Dimensions:** 56 x 56 x 23 mm (2.20 x 2.20 x 0.90 inches)
- **Item Weight:** Approximately 3.53 ounces (100g)

## 10. WARRANTY & SUPPORT

---

ReniCharge products are designed for reliability and performance. For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official ReniCharge website. Please have your product model (TH05) and purchase details ready when contacting support.