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› Freshliance BlueTag TH30R-I Bluetooth Temperature and Humidity Data Logger User Manual

## FRESHLIANCE BlueTag TH30R-I

# Freshliance BlueTag TH30R-I Bluetooth Temperature and Humidity Data Logger User Manual

Brand: FRESHLIANCE | Model: BlueTag TH30R-I

### 1. INTRODUCTION

The Freshliance BlueTag TH30R-I is a battery-rechargeable Bluetooth temperature and humidity data logger designed for precise environmental monitoring. It features two external probes in addition to a built-in sensor, making it suitable for various applications such as refrigerators, archives, incubators, laboratories, greenhouses, and cold chain logistics. This device allows for remote data review, analysis, and alarm notifications via a smart application.



Image 1.1: The Freshliance BlueTag TH30R-I data logger connected to a smartphone displaying real-time temperature and humidity data.

## 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x BlueTag TH30R-I Data Logger
- 1 x Temperature Probe (External)
- 1 x Temperature & Humidity Probe (External)
- 1 x USB Charging Cable
- 10 x Cable Clips
- 1 x User Manual
- 1 x Storage Box

# Paired with Tkeeper APP via Bluetooth

  
Parameter  
configuration

  
History data  
reviewing

  
Data analysis,  
graphing, processing

  
Abnormal/Normal  
data filtering

  
Location information  
available

  
Data export

  
Multilingual user  
interface

  
Report signature  
and emailing



Image 2.1: The data logger, two external probes, USB charging cable, and cable clips.

## 3. DEVICE OVERVIEW

The BlueTag TH30R-I features a clear display and multiple ports for external probes. Understanding its components is essential for proper operation.

## How to Install

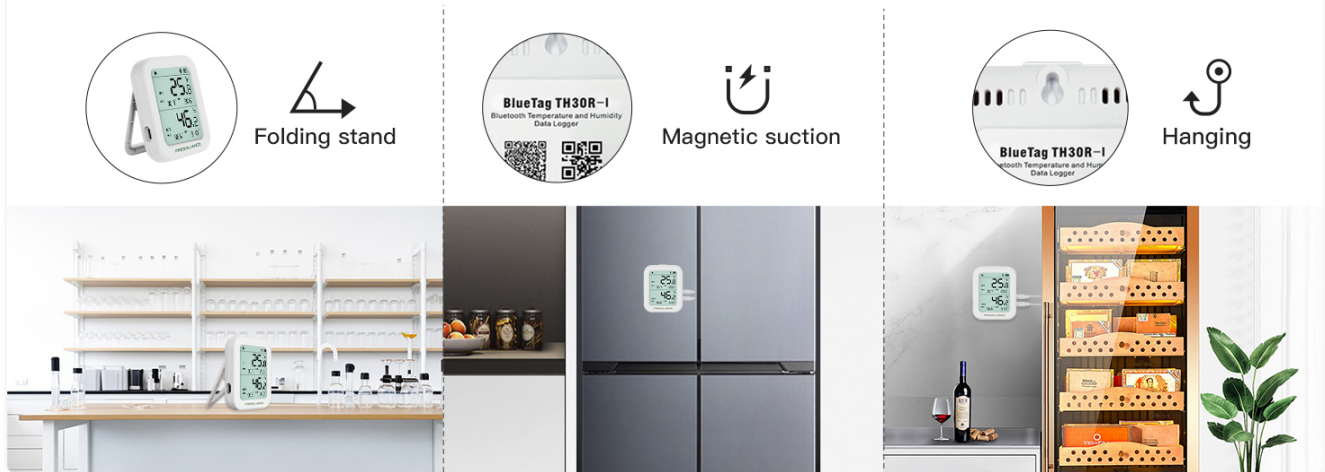


Image 3.1: Labeled diagram of the data logger's display showing indicators for recording, battery level, current readings, and min/max values. The side view indicates external probe ports.

### Key Display Indicators:

- **Stop Recording:** Indicates recording has ceased.
- **Recorded Points:** Displays the number of data points collected.
- **Bluetooth Connection:** Shows active Bluetooth pairing.
- **Battery Level:** Indicates remaining battery charge.
- **Start Recording:** Indicates active data recording.
- **Alarm:** Alerts to out-of-range conditions.
- **Current Temperature Reading:** Real-time temperature.
- **Min. Temperature Value:** Lowest recorded temperature.
- **Current Humidity Reading:** Real-time humidity.
- **Min. Humidity Value:** Lowest recorded humidity.
- **Max. Humidity Value:** Highest recorded humidity.
- **External 1 / External 2:** Indicators for connected external probes.

## 4. SPECIFICATIONS

The following table details the technical specifications of the BlueTag TH30R-I data logger and its probes:

| Feature                       | Description                                              |
|-------------------------------|----------------------------------------------------------|
| Product Dimensions            | 2.68 x 2.68 x 0.81 inches (6.8 x 6.8 x 2.05 cm)          |
| Item Weight                   | 3.17 ounces (90 Grams)                                   |
| Power Source                  | 1 Lithium Ion battery (included), rechargeable via USB-C |
| Operating Humidity            | 0% to 95% RH                                             |
| Built-in Sensor Temp Range    | -22°F to +158°F (-30°C to +70°C)                         |
| Built-in Sensor Hum Range     | 0% to 95% RH                                             |
| External Temp Probe Range     | -112°F to +392°F (-80°C to +200°C)                       |
| External T&H Probe Temp Range | -40°F to +185°F (-40°C to +85°C)                         |

| Feature                      | Description                                   |
|------------------------------|-----------------------------------------------|
| External T&H Probe Hum Range | 0% to 95% RH                                  |
| Data Storage Capacity        | 20,000 points per probe (total 60,000 points) |
| Connectivity                 | Bluetooth                                     |
| App Compatibility            | Tkeeper APP                                   |



Image 4.1: A table detailing the probe types (Internal, T&H External, Temp External) along with their standard quantity, temperature ranges, temperature accuracy, humidity ranges, humidity accuracy, and standard probe length.

5. SETUP

5.1 Charging the Device

Before initial use, fully charge the data logger using the provided USB charging cable. Connect the USB-C end to the device's charging port and the other end to a standard USB power adapter (not included).



Image 5.1: Close-up view of the USB charging port on the side of the data logger.

5.2 Installing External Probes

The device supports two external probes. Connect the desired probes to the designated ports on the side of the data logger. Ensure probes are connected before pairing the device with the app for proper configuration.

### 5.3 App Installation and Device Connection

The BlueTag TH30R-I operates with the Tkeeper APP. Follow these steps to install the app and connect your device:

1. **Download the Tkeeper APP:** Scan the QR code on the device or manual, or visit <https://oss.freshliance.com/app/ble.html> to download the app from Google Play or the App Store.
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your mobile phone.
3. **Power On Device:** Turn on the BlueTag TH30R-I.
4. **Add Device in App:** Open the Tkeeper APP. You can either scan the QR code on the device, manually enter the device ID, or search for Bluetooth devices to add your data logger.
5. **Configure:** Once connected, configure the device settings within the app.

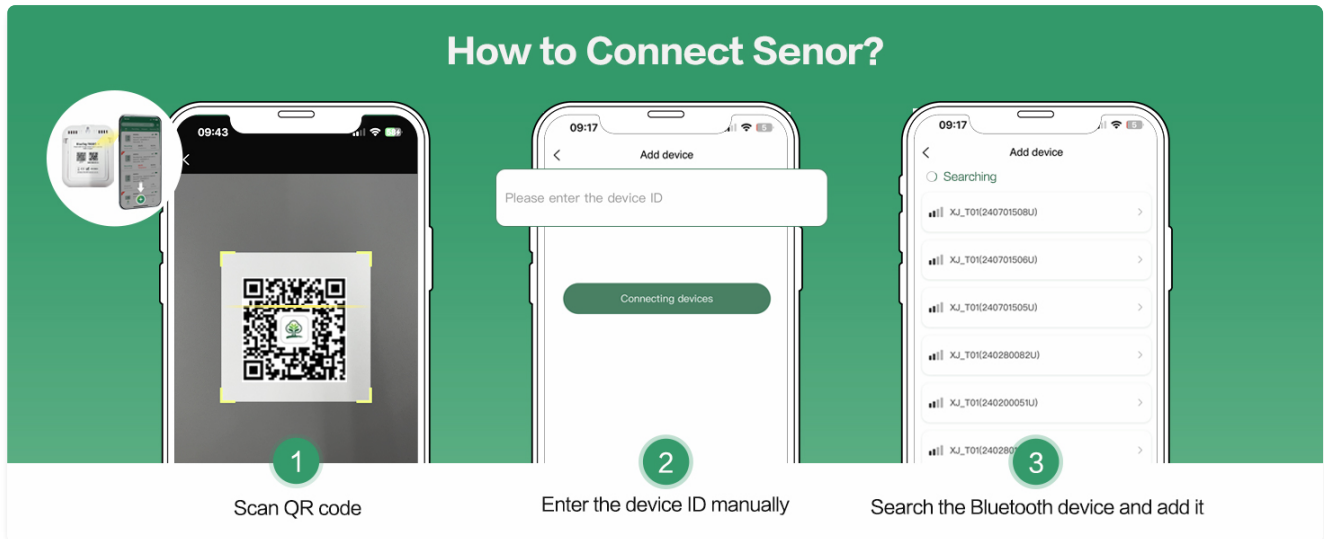


Image 5.2: Visual guide showing the six steps for app download, Bluetooth activation, device power-on, and adding the device within the Tkeeper app.



Image 5.3: Illustration of three methods to connect the sensor: scanning a QR code, manually entering the device ID, or searching for Bluetooth devices.

### 5.4 Device Placement

The data logger can be placed using its folding stand, magnetic suction, or by hanging. Position the external probes in the areas where temperature and humidity monitoring is required, such as inside a refrigerator or freezer. The flat wires of the probes allow for easy routing under door seals without compromising insulation.

# BLUETAG TH30R-I SERIES

Bluetooth Temperature Humidity Data Logger with External Probe



Image 5.4: The data logger mounted on the exterior of a refrigerator, with its external probes extending inside for temperature and humidity monitoring.

## 6. OPERATING INSTRUCTIONS

### 6.1 Starting and Stopping Data Recording

Once connected to the Tkeeper APP, you can initiate data recording. The app allows you to configure recording intervals and other parameters. To stop recording, use the corresponding function within the app.

### 6.2 Data Review and Analysis

The Tkeeper APP provides comprehensive tools for reviewing and analyzing collected data. You can view data in chart format, examine detailed data points, and see MAX/MIN/AVG/MKT values. The app also supports filtering abnormal data.

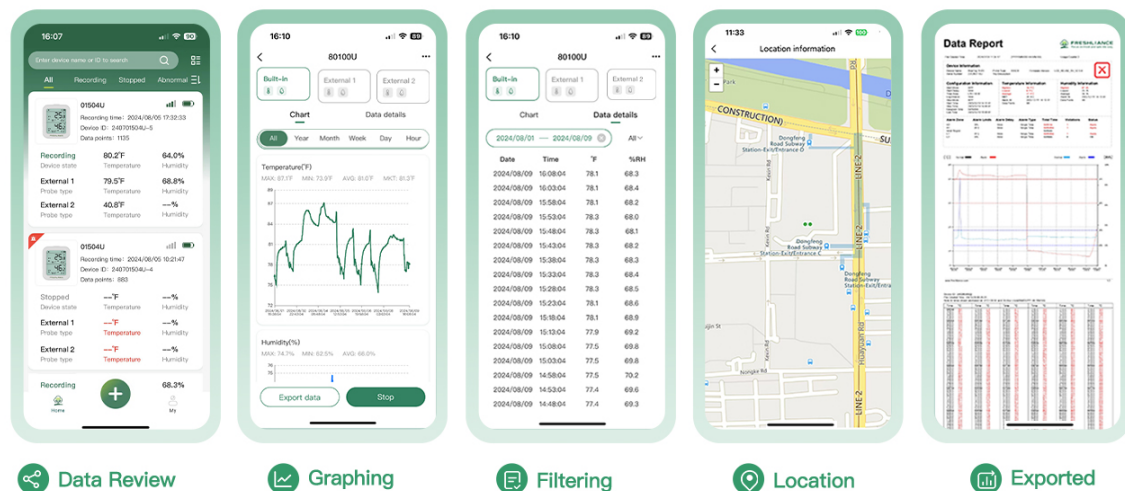


Image 6.1: The Tkeeper app displaying temperature and humidity charts over time, alongside a detailed list of recorded data points and options for data filtration.

### 6.3 Data Export

All monitoring data can be exported as PDF or CSV files directly from the Tkeeper APP. You can select specific time intervals for export. PDF reports can include a signature and be shared via email.

## How to use

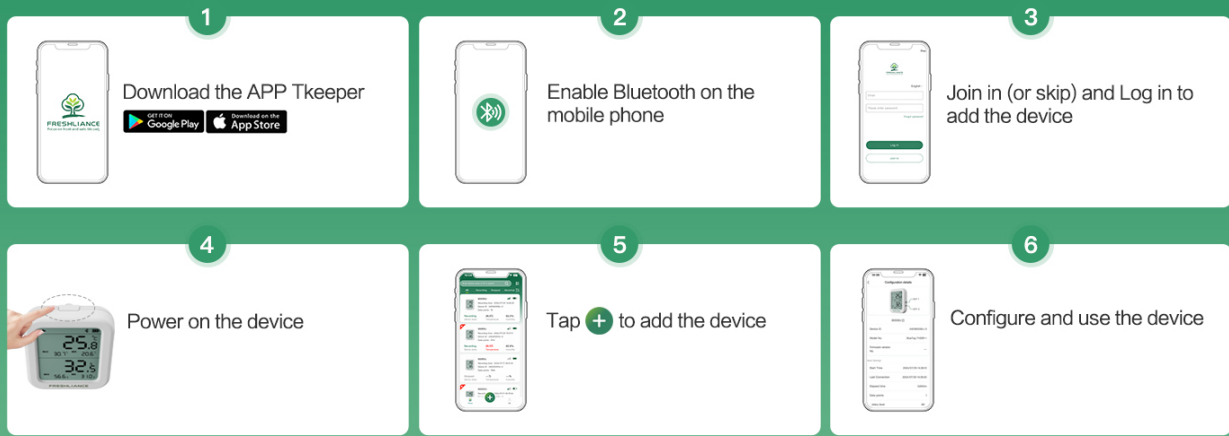


Image 6.2: The Tkeeper app's interface for selecting data export parameters, showing options to generate PDF or CSV reports, including a signature field for PDF reports.

### 6.4 Cloud Data Synchronization

All collected data is automatically uploaded to and stored in the cloud for up to 2 years. This feature supports multi-user data sharing, allowing multiple users to access and review monitoring data history by connecting to the device via Bluetooth.

### 6.5 Alarm Settings

Configure custom alarm thresholds within the Tkeeper APP. The device will alert you if temperature or humidity levels exceed the set parameters, ensuring timely intervention for critical monitoring applications.

## 7. MAINTENANCE

### 7.1 Cleaning

Wipe the device and probes with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.

### 7.2 Battery Care

To prolong battery life, avoid extreme temperatures and store the device in a cool, dry place when not in use for extended periods. Recharge the battery regularly to maintain optimal performance.

## 8. TROUBLESHOOTING

If you encounter issues with your BlueTag TH30R-I, consider the following:

- **Device not connecting to App:** Ensure Bluetooth is enabled on your phone and the device is powered on. Try restarting both the device and the app. Verify that the correct device ID is being used for connection.
- **Inaccurate Readings:** Check that probes are securely connected and positioned correctly. Ensure the device and probes are not exposed to direct sunlight or extreme drafts that could affect readings.
- **Data Not Recording:** Confirm that recording has been initiated in the Tkeeper APP and that the device's battery is sufficiently charged.

## 9. WARRANTY AND SUPPORT

FRESHLIANCE is committed to providing quality products. For any questions or technical support, please contact us via email or phone. Refer to your purchase documentation for specific warranty terms.

### Certifications:

The Freshliance BlueTag TH30R-I complies with various international standards, including RoHS, FDA, ISO9001, FCC, CE, and EN12830, ensuring its quality and reliability.

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question