BLUETAG TH30

Bluetooth Temperature and Humidity Data Logger





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Thank you for purchasing Freshliance temperature and humidity data logger. Please read the operation manual through carefully and be in strict accordance with it in order to prevent injuries and damage to the product. Product damage caused by incorrect operation is not covered by the warranty.

Freshliance reserves the right to modify and improve the product and user manual at any time without notice. The pictures in this manual are for reference only. Actual product you receive may vary.

Please keep this manual in a safe place for future reference.

Notice

- Please keep Bluetooth and WiFi or cellular network on from your mobile phone.
- BlueTag TH30 can be optionally set with one or two external probes. If needed, please plug it to the main device before configuration and usage.
- The button on the top of the device: Press it for 3s to switch the display of ℃ and ℉; or press it once to switch the temperature and humidity display among different probes if one or two external probes are used.
- When the memory capacity is full, the device will stop recording. To continue to record data, please reuse it for a new trip.
- Please tap Stop on the APP with care. Once tapped, the device will stop recording data.
- To avoid loss of the report, before battery replacement (BlueTag TH30B) or screen going off due to a dead battery (BlueTag TH30R), please be sure to download the report first.
- Charging Reminder: Please do not turn on/off the device or insert/remove the

sensor when the device is charging. Otherwise, the function of the device may be damaged.

- External Probe Reminder: If an external probe is required, please insert it before configuration. Please do not insert or remove the external probe when the device is working.

1. Product Description

BlueTag TH30 is a multi-use temperature and humidity data logger based on Bluetooth wireless communication technology, convenient for users to read and get the report by APP. The device can be optionally set with one or two external probes. It is ideal in freezer, medicine cabinet, wine cellar, warehouse, greenhouse, laboratory, supermarket, incubator, refrigerator car and other scenarios where accessibility and mobility are crucial

2. Product Appearance



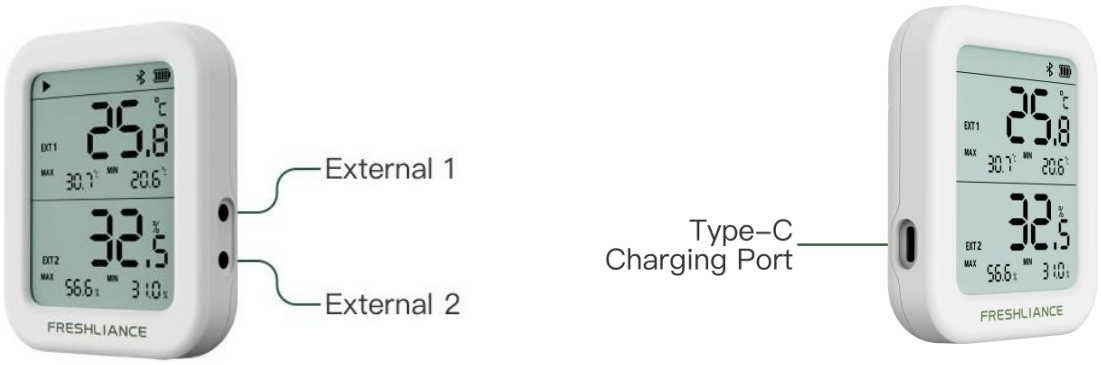
BlueTag TH30B

2×Replaceable AAA Batteries Powered

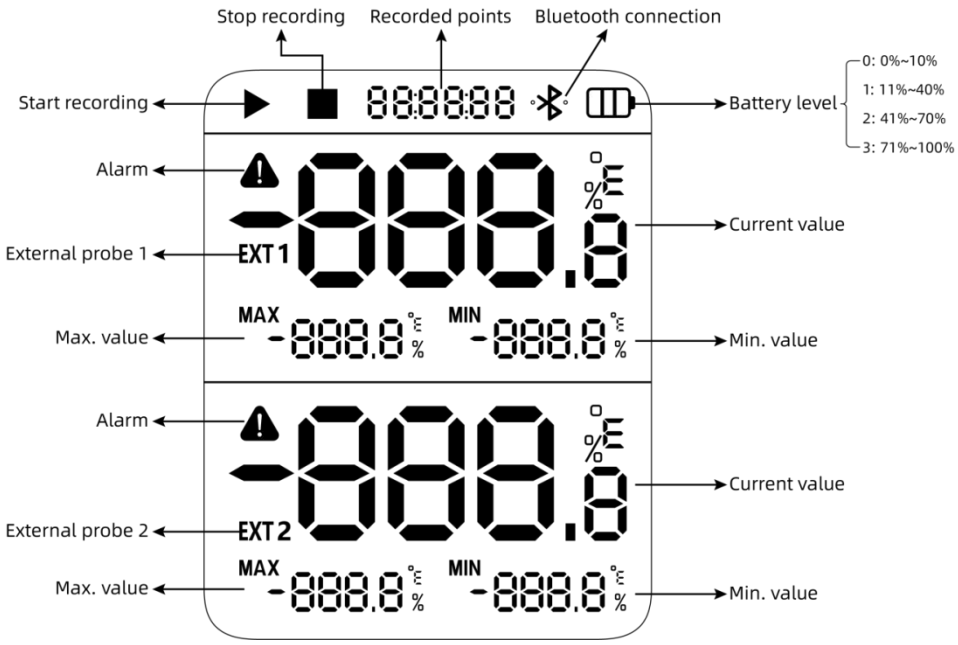


BlueTag TH30R

Rechargeable Lithium Battery Powered, 2~3 hours to recharge a dead battery

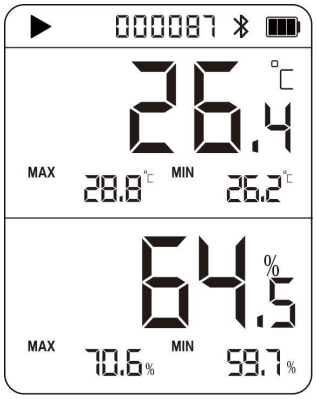


3. Display

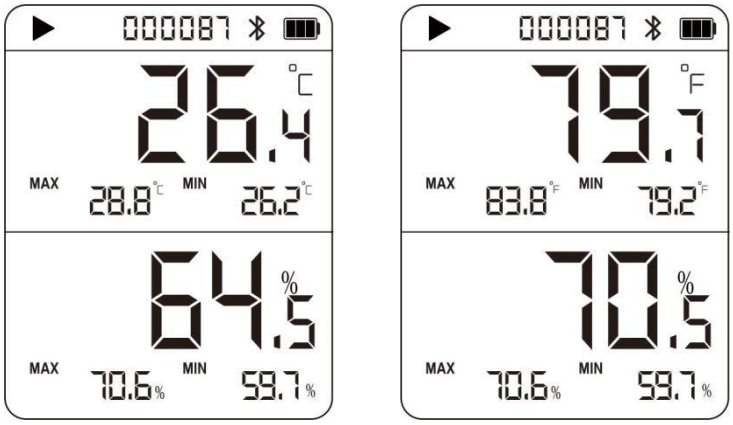


Notes:

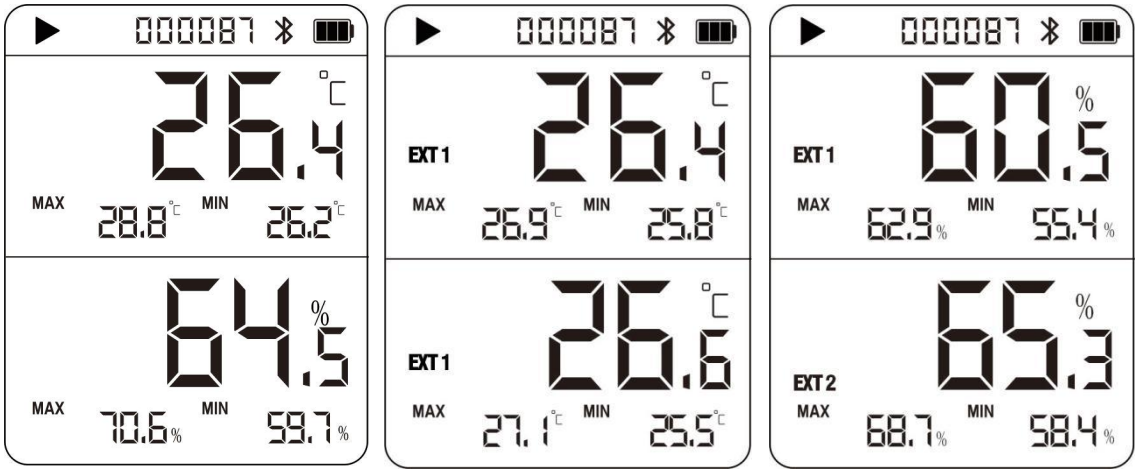
- When the battery level is empty, please charge it (BlueTag TH30R) or replace the battery (BlueTag TH30B).
- When the screen shows , it indicates the successful Bluetooth connection.



- The data on the screen will be updated every 10s before recording and every 30s instead during recording.
- Press the top button for 3s to switch the temperature unit between ℃ and ℉.



- When external probes are connected, shortly press the top button to cycle through the readings from the built-in sensor, external probe 1, and external probe 2. The maximum and minimum recorded values are displayed simultaneously.



4. Technical Data

Model	BlueTag TH30B	BlueTag TH30R	BlueTag TH30R-I	BlueTag TH30R-ETU
External Probe Optional	×	Max. 2 external probes (See the External Probe List)		
Battery	2*Replaceable AAA batteries	Rechargeable lithium battery		
Installation	Hanging, Folding stand	Hanging, Folding stand，Magnetic suction		

Weight	85g	90g (Main device)
Built-in Sensor	-30℃~+70℃ ±0.5℃ F.S.	
	0~100%RH ±3%RH(25℃, 20%~80%RH); ±5%RH(Others)	
Temperature Units	℃, ℉	
Alarms	Max. 6 alarm points each probe	
Report	PDF/CSV	
Connection	Bluetooth 5.2	
Start Delay	0min~72h	
Logging Interval	1min~99min	
Memory Capacity	20,000 readings each probe	
Device Dimensions	83mm*68mm*20.5mm	

External Probe List:

Probe Type	Measuring Range	Measuring Accuracy
Temperature Probe	-30℃~+70℃	±0.5℃ (-30℃~+50℃) ±1.0℃ (Other)
	-196℃~+200℃	±0.5℃ (-100℃~+80℃) ±1.0℃ (Other)
	-90℃~+200℃	±0.3℃ (-40℃~+100℃) ±0.5℃ (-80℃~-40℃; +100℃~+150℃) ±1.0℃ (Other)
Temperature and Humidity Probe	-40℃~+85℃	±0.5℃ F.S.
	0-100%RH	±3%RH (25℃, 20%~80%RH) ±5%RH (Other)
Standard cable length: 2m; Customizable length available: 5m, 10m, 15m or 20m.		

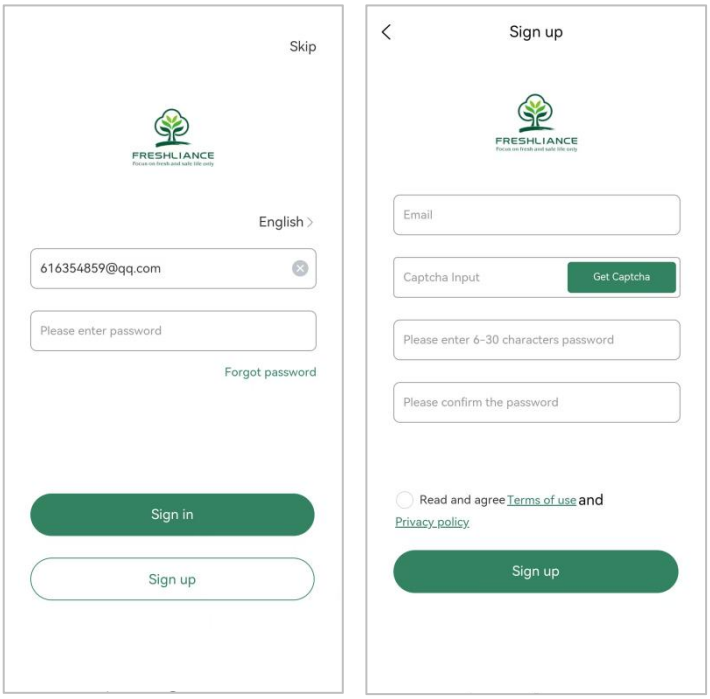
5. Operation

5.1 Download APP

Please scan the QR code below to download Tkeeper APP.

5.2 Sign Up and Sign In

Run the APP and tap Sign up to sign up. After sign-up, please sign in.



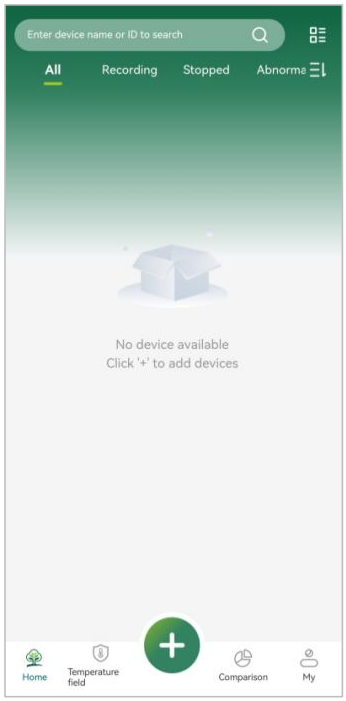
5.3 Start Device

Press the button on the top of the device for 5s to start the device.

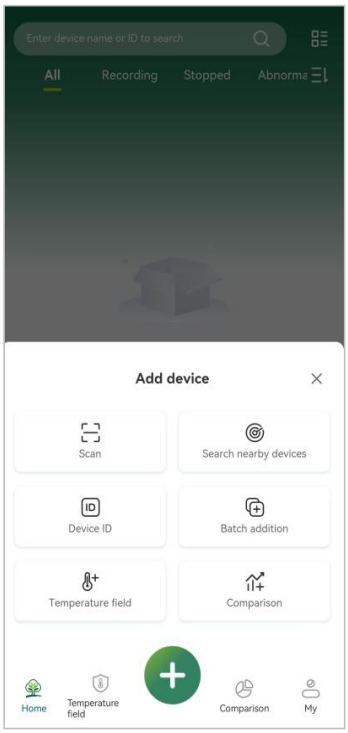


5.4 Add Device

5.4.1 Tap on the home page to enter the Add Device page.



5.4.2 Scan the QR code, manually enter the device ID or search nearby Bluetooth devices to add the device.



Q&A

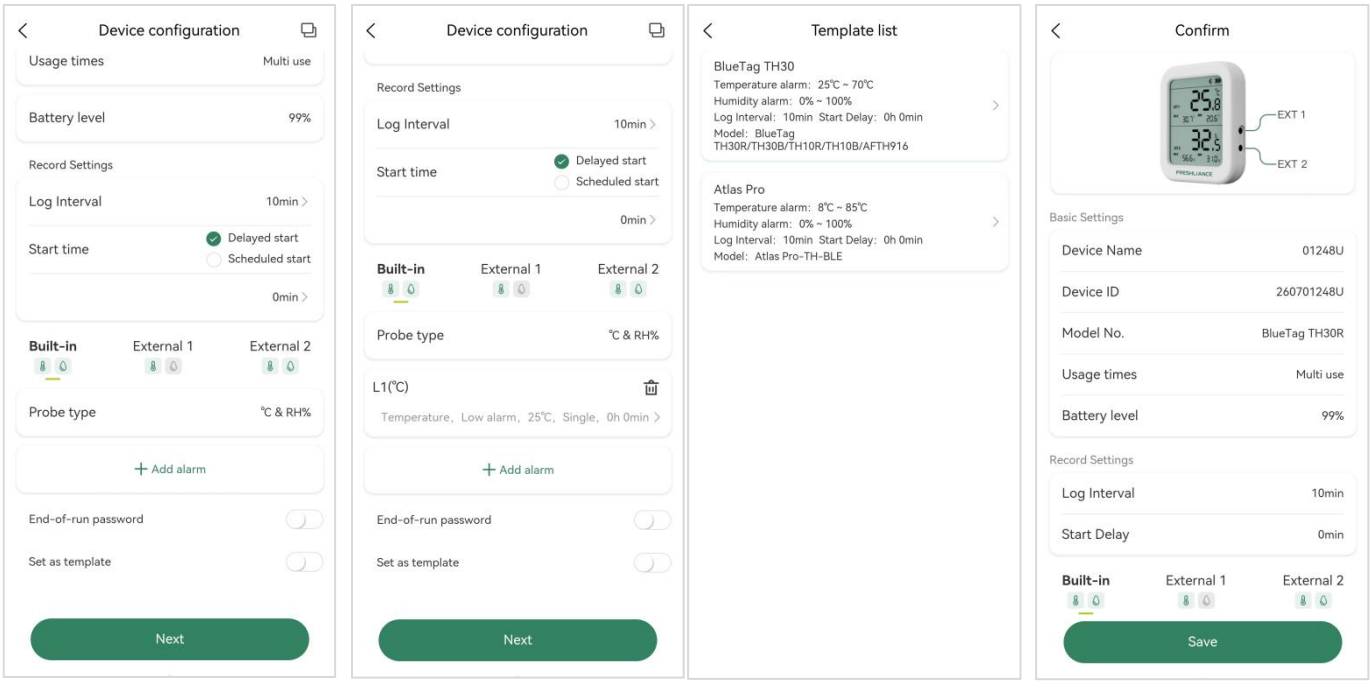
Q: What should the user do when the device cannot be added successfully?

A: If the device cannot be added with the QR code, please check whether the QR code scanned is the QR code of the device, or whether there are any damage or stains on the QR code, or dim light and other conditions that may affect QR code scanning, and try again in a bright environment; if failed to add the device with the device ID, please check whether the device ID entered is correct; if the device ID is confirmed correct, please place the device near the mobile phone, because an excessively long distance may cause device addition failed; if the device cannot be found, please check whether  keeps on. If it's shown, it means the device is being connected with other phones.

5.5 Configuration

Note: BlueTag TH30R can be optionally set with one or two external probes. If needed, please plug them to the main device before configuration and usage.

5.5.1 After the device is added, the configuration page will be displayed. Please configure the parameters accordingly. Or tap  on the upper right corner to select a template.

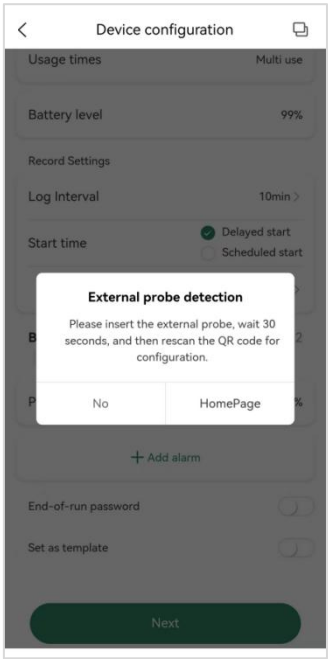


5.5.2 After configuration, the device will start to record.

Q&A

Q: What will happen if the user fails to connect the external probes well in advance and directly makes configuration?

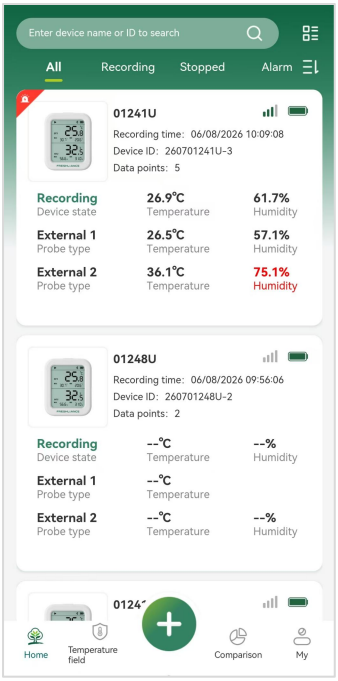
A: In this case, only the built-in sensor can be configured. If the user wants to configure the external probes, he needs to first connect the external probes well and then wait about 30s before re-adding and configuring the device.



5.6 View Data

5.6.1 Check Real-time Data

- If the mobile is connected with the device, the real-time data will be displayed on the home page automatically;
- If the real-time data is displayed as --℃ Temperature --% Humidity, it means that the device has not been connected. Please pull down to refresh the page and wait a few seconds;
- If the temperature/humidity exceeds the preset alarm thresholds, it will be displayed in red, and  will be displayed. They are all irreversible.

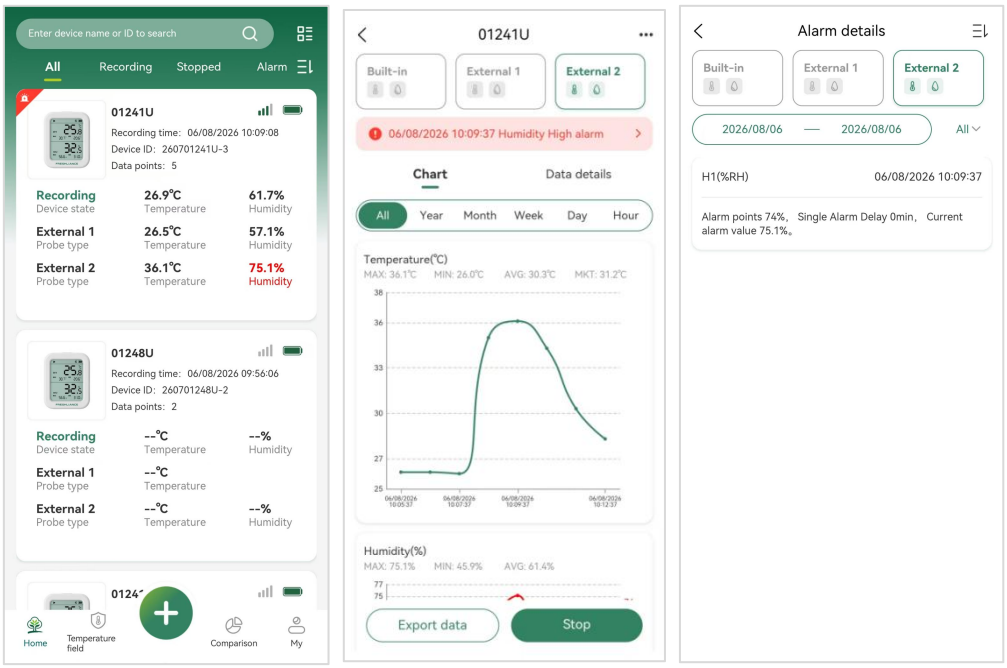


5.6.2 Read Historical Data

- On the home page, tap the device tag to enter the detailed data page for the historical data. With successful Bluetooth connection, the device data will be read automatically; otherwise the historical data will be automatically synchronized from the cloud. By tapping each probe tag on the detailed data page, the historical data of each probe can be checked independently.
- If the temperature or humidity reading is out of the preset alarm thresholds, it will

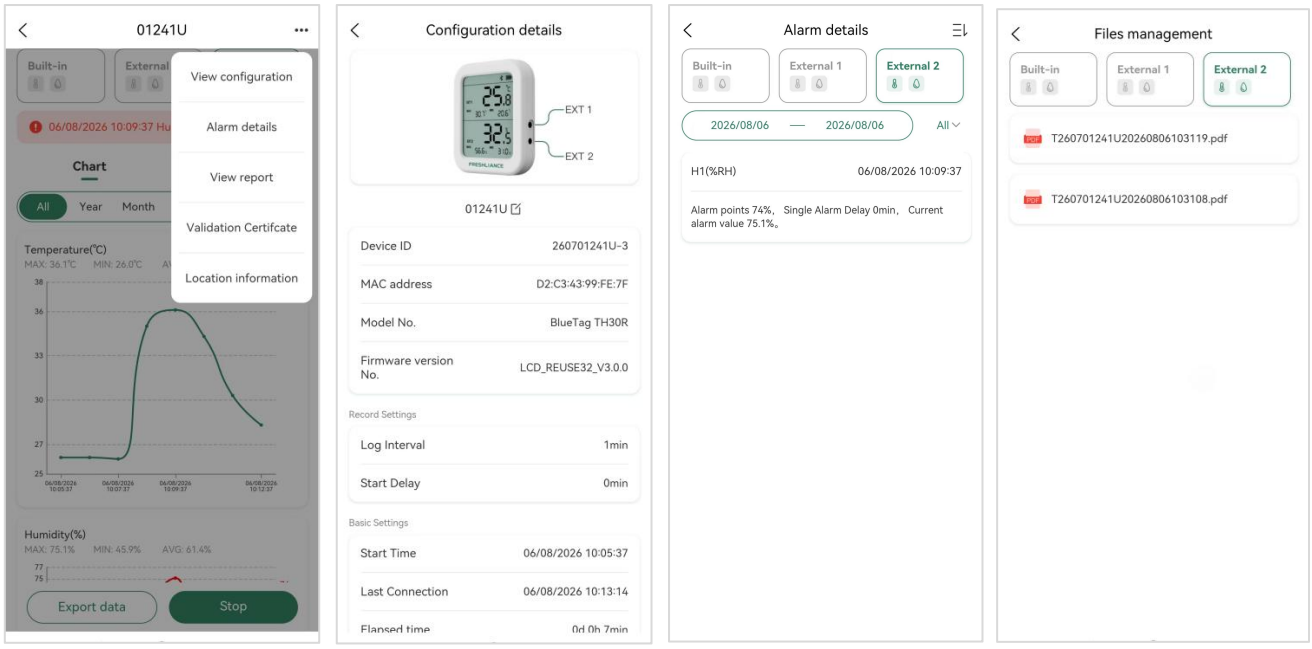
be distinctly displayed in the line chart and data details.

- Drag the floating gauge of the line chart to view the data at specific time points.
- Tap the red alarm notification at the top of the page to check alarm details.



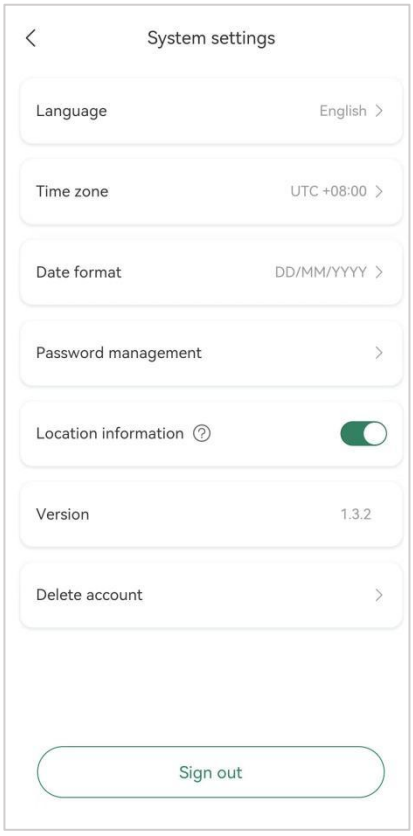
5.6.3 View Relevant Information

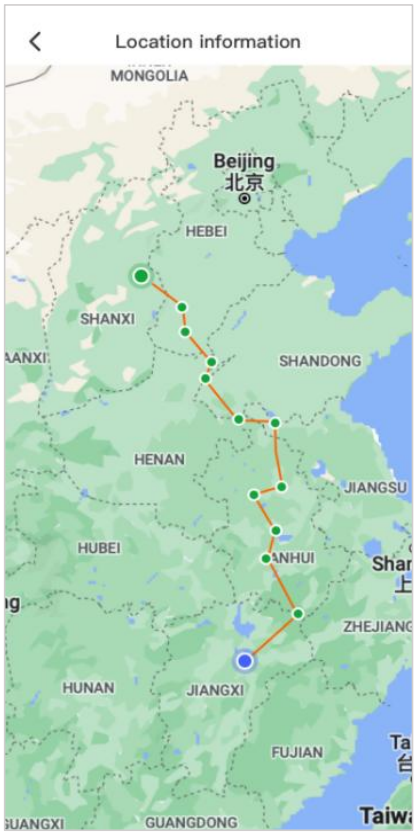
On the detailed data page, tap ••• to pop up a subwindow with items, including View configuration, Alarm details, View report, Validation certificate and Location information, etc.



Notes:

- Location information is disabled by default. If needed, please enable it in system settings. Location information is provided based on the Bluetooth connection between the device and a location-enabled mobile phone. The location information refers to the geolocations of the device where it is successfully connected with the phone, rather than real-time geolocation tracking of the device.
- When the device is added to multiple phones, geolocation information of the device can be updated by any phone that successfully connects with the device via Bluetooth network, and then automatically shared with other users.





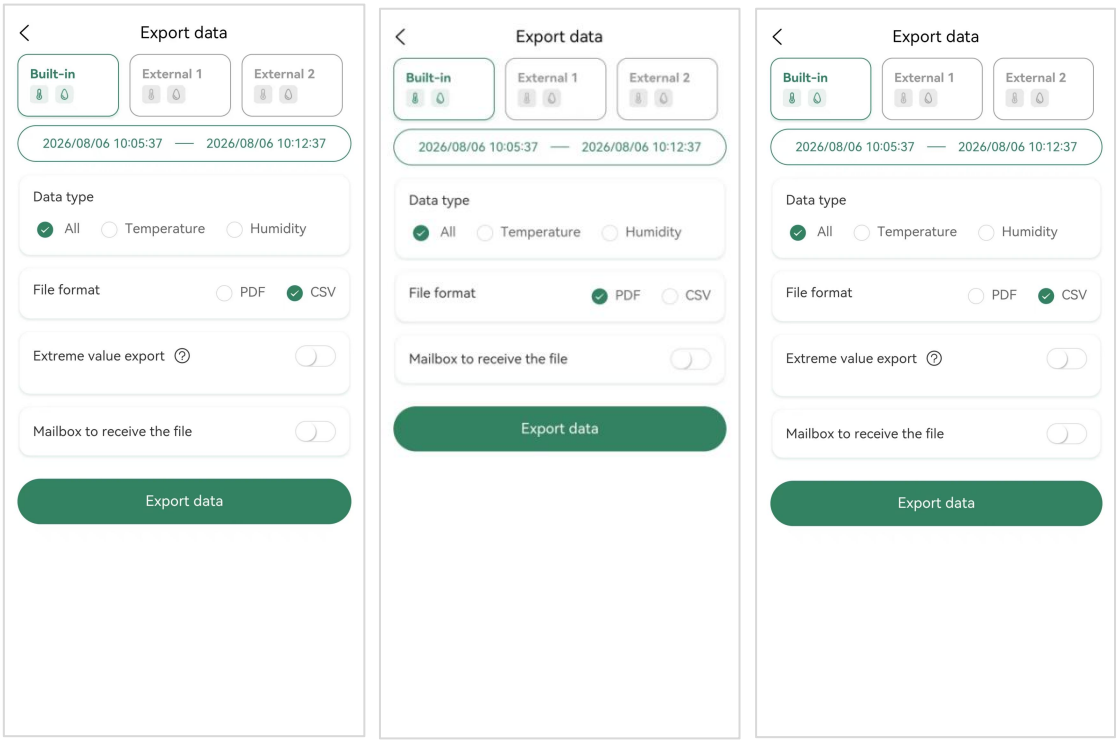
5.7 Export Report

5.7.1 On the detailed data page, tap Export data at the bottom to export the temporary PDF or CSV report, with optional data type.

5.7.2 If any signature on a PDF report or final report is needed, please stop the device on the APP first.

5.7.3 Extreme value report is optional for CSV report.

5.7.4 The report can also be sent to a mailbox.



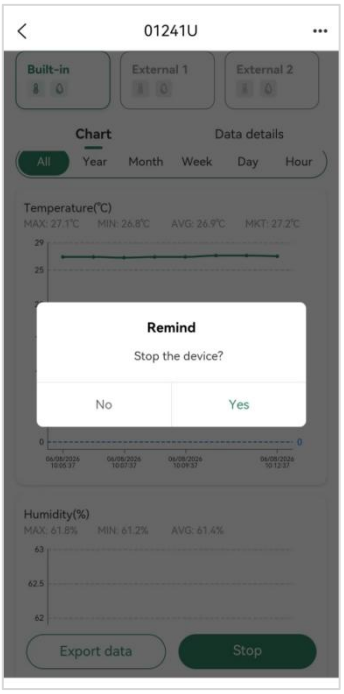
Q&A

Q: Why is the signature only available for some devices?

A: Only the devices that have been stopped can have a signature on the PDF report. Report signature is not available for the devices in recording status. For a signature, please stop the device first.

5.8 Stop Device

5.8.1 Tap Stop at the bottom of the detailed data page to stop the device.



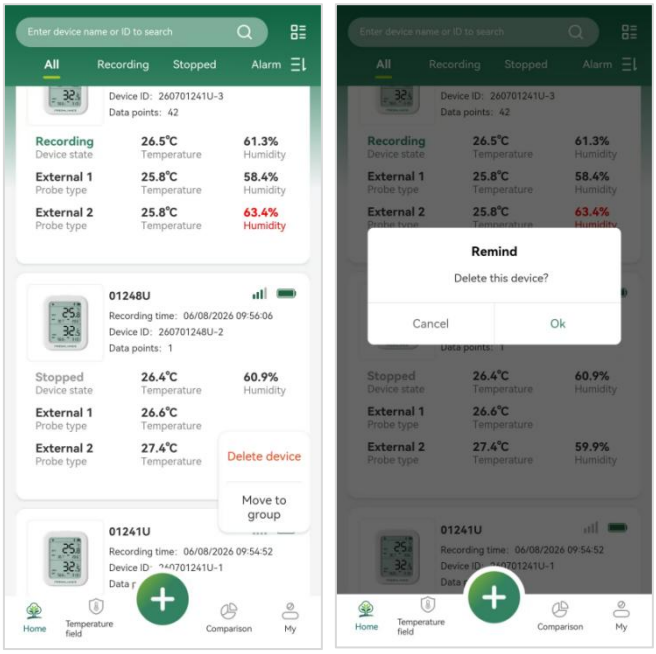
5.8.2 Once stopped, the device status will become Stopped and the device will stop recording data.

5.9 Device Management

More than one device can be added to an account, and “All”, “Recording”, “Stopped”, “Abnormal” are displayed on the home page. Tap to switch their display mode and tap to switch their display sequence.

5.9.1 Add Device: Please refer to **5.4 Add Device**.

5.9.2 Delete Device: On the home page, long press the device tag. Then one prompt box will display Delete device. Select it and tap Ok to delete the selected device.

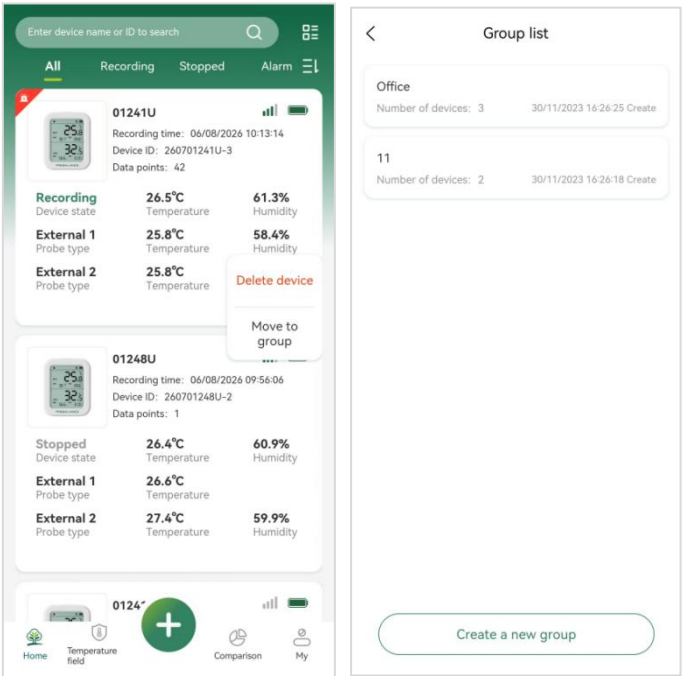


Q&A

Q: Can the device in the recording status be deleted?

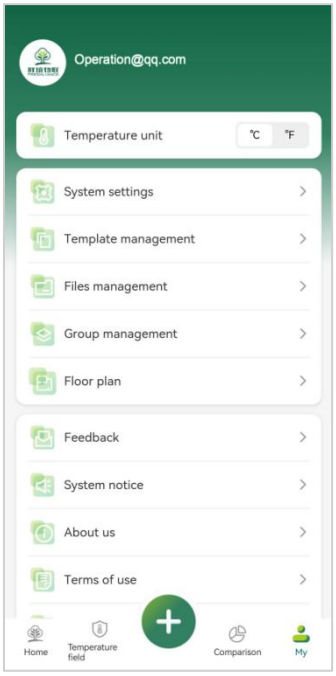
A: No, it can't. The recording device cannot be deleted. Only the stopped device can be deleted.

5.9.3 Move Device to Group: Do as 5.9.2 to open the prompt box. Then tap Move to group to move the device to the expected group. Or tap Create a new group at the bottom to create a new group to move in.

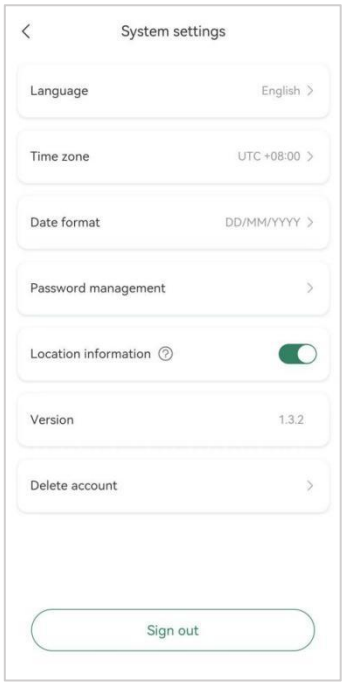


5.10 APP Setting

5.10.1 Tap My to enter APP setting. Tap ℃ ℉ to switch temperature unit.

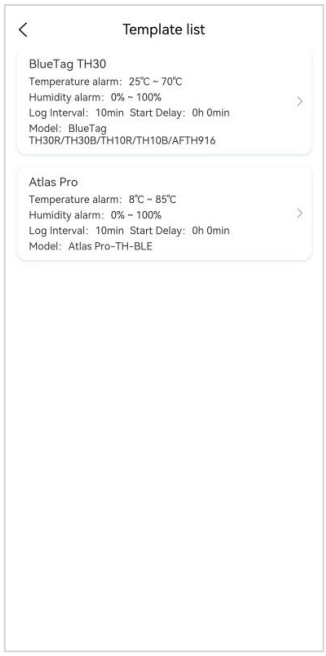


5.10.2 Tap System settings to set language, time zone, date format, password management and sign out. Location information is optional as needed.



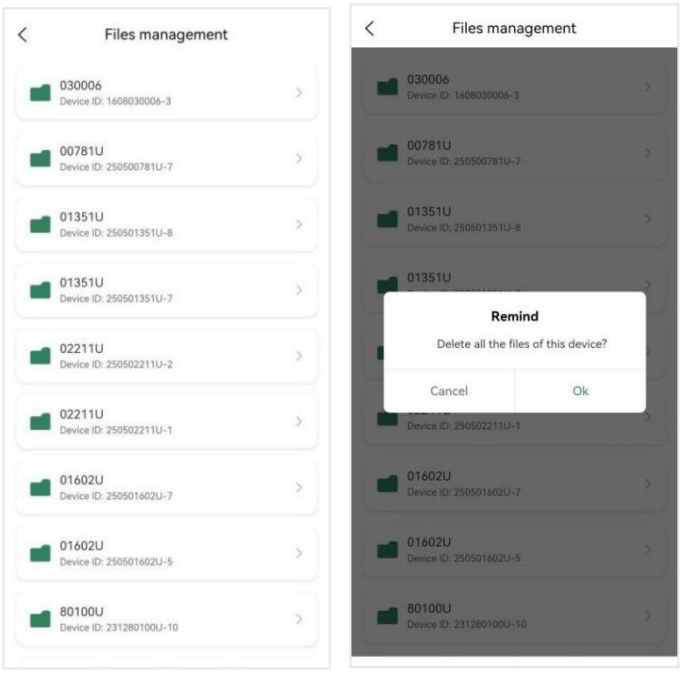
5.10.3 Template Management

Tap Template management to enter template list. On this page, template deletion and modification can be made.



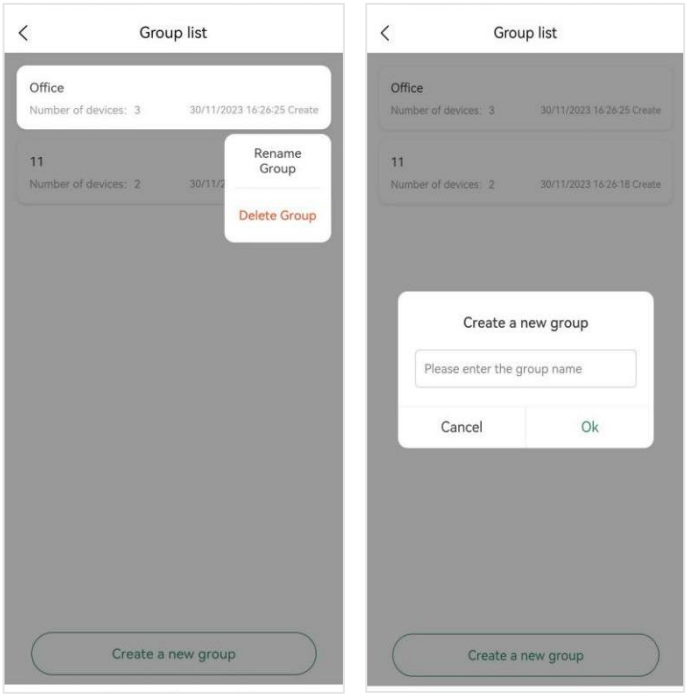
5.10.4 Files Management

Tap Files management. Then all reports and report folders will be displayed and deletion operation will be available.



5.10.5 Group Management

Tap Group management to enter group list. On this page, long press group tag to choose Rename Group or Delete Group, or tap Create a new group to add a new group; and tap a group tag to view all devices in the group or remove them from the group.

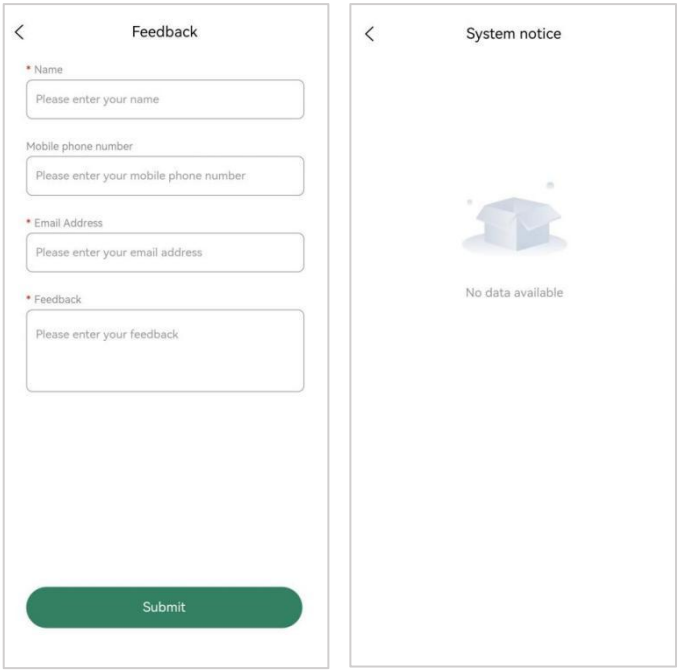


Q&A

Q: Will the device removed from a group still be displayed on the home page?

A: Yes, it will. Removing a device in a group means removing the device from the group, rather than removing it from the APP.

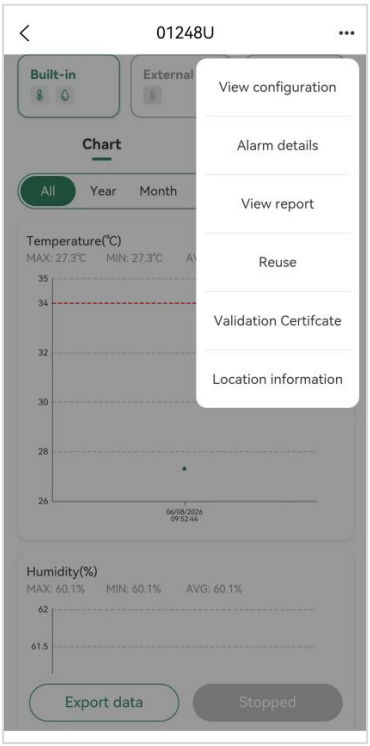
5.10.6 Tap Feedback to submit opinions; tap System notice to check APP update details.



5.11 Reuse

Notes: To avoid loss of the report, before reuse, please be sure to download the report first.

5.11.1 If power is enough, please scan the QR code on the device again or tap ••• on the detailed data page to reuse the device.



5.11.2 If power is not enough:

BlueTag TH30B: Please replace the batteries, and then press the button on the device for 5s to restart the device and do as **5.11.1** to reuse the device.

BlueTag TH30R: When screen of the device is still kept on, please charge it and then do as **5.11.1** to reuse the device.

When the battery has run out and the screen of the device has been automatically off, please charge it and press the button on the device for 5s to restart the device and then do as **5.11.1** to reuse the device. It takes 2~3 hours to recharge a dead battery.

All data recorded will be cleared after the battery is replaced (BlueTag TH30B) or the screen of the device is automatically off due to a dead battery (BlueTag TH30R). **Please be sure to download the report before battery replacement or screen going off due to a dead battery.**

- End -

This completes the operational guide for BlueTag TH30 Bluetooth temperature & humidity data logger. It is also designed for reliable thermal mapping and real-time temperature & humidity monitoring via a gateway. For more details, please don’t hesitate to contact us.

FCC WARNING

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.

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

NOTE: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the device and receiver.

-- Connect the device into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC’s RF Exposure guidelines, this device should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

Certification

RoHS CE HACCP EN12830 IATA FDA GSP DO-160

We also provide

- USB Temperature & Humidity Data Logger
- Ultra-low/Ultra-high Temperature Data Logger
- Time Temperature Indicator
- Bluetooth Temperature & Humidity Data Logger
- 4G/WiFi/LAN Real-time Temperature & Humidity Monitoring

FRESHLIANCE

Trustworthy Environmental Logging Solution Provider

Thanks for your purchasing. Freshliance is committed to sensing, monitoring, logging, controlling and analyzing temperature, humidity, light, pressure and gas etc., and developing related IOT applications based on independent temperature verification environments. We have an experienced and innovative software and hardware team and we are ready for your tailor-made solutions.

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