

X-SENSE

Act in Advance

深圳市安室智能有限公司

料号	F800004000227	版本号	V1.0
品名	STH0C 说明书_美规	设计师	罗敏
材质	70g 书纸	时间码	2026011901
工艺	单黑印刷, 骑马钉		
尺寸	70x70mm		
公差	±1mm		

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X-SENSE



STH0C

User Manual

Thermometer Hygrometer

Replaceable Battery

F800004000227 V1.0

Contents

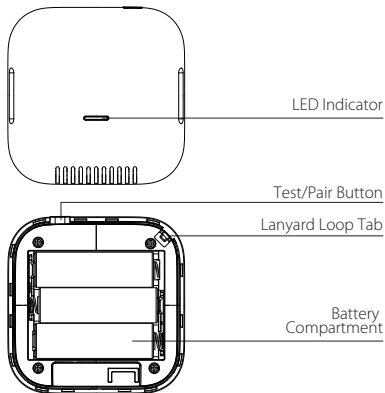
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This user manual contains important information regarding the operation of your thermometer hygrometer. Ensure you read this user manual fully before installing and operating the device. If you are installing this device for use by others, you must leave this manual (or a copy of it) with the end user.

1 Introduction

The thermometer hygrometer supports all basic functions as well as smart functions such as remote monitoring and temperature & humidity graphs. With 2.4 GHz Wi-Fi, it connects directly to the X-SENSE Home Security App. This thermometer hygrometer is reliable and easy to use for homes, greenhouses, and more.

2 Product Overview



3 Package Contents



Thermometer
Hygrometers



Lanyards



Stickers



AA Batteries



User Manual

4 Device Setup

Download the X-SENSE Home Security App



Download on the
Apple App Store



GET IT ON
Google Play

To download the **X-SENSE Home Security App**, scan the QR code or search for “**X-SENSE Home Security**” in the Apple App Store or Google Play. Sign up with a valid email address. If you already have an account, make sure the app is updated to the latest version.

***NOTE:** Make sure your smartphone supports iOS 11 and higher, or Android 8.0 and higher.*

Before connecting devices, make sure that:

1. You know your Wi-Fi network name and password.
2. You are connecting your device using a 2.4 GHz Wi-Fi network (incompatible with 5 GHz Wi-Fi network).
3. Make sure the Bluetooth on your phone is turned on.

***NOTE:** When the device is configured via Wi-Fi, make sure your mobile*

phone and device are as close to the router as possible, which can speed up device configuration.

Activate the Device

This device is equipped with a battery insulating film to ensure it will not be powered on during transportation before it has been shipped from the factory. When installing this product, you will need to pull out the film before powering on and activating the device.

Add the Thermometer Hygrometer to the Network

1. Tap "⊕" and select "Thermo-hygrometers" in the product list. Select "Wi-Fi Thermometer Hygrometer (Standalone, working without Base Station)", then select "STH0C." Create a name for your device and choose its location. Finally, tap "Next" to enter the next page.
2. Set the data reporting interval. You can choose from 10 minutes, 20 minutes, 30 minutes, or 1 hour. After choosing, then tap "Next" to enter the next page.
3. Follow the in-app instructions to open the battery cover, remove the battery insulating film, and make sure the batteries are inserted with the correct polarity. Then tap "Next."
4. Follow the in-app instructions and press and hold the device's Test/Pair button for 5 seconds until the LED flashes blue rapidly to enter Wi-Fi pairing mode.
5. Tap "Operation Confirmed", then tap "Next". The page will display

"Searching for nearby Bluetooth devices".

6. Select a Wi-Fi network and enter the password. Tap "Next." Make sure the Wi-Fi password you entered is correct.
7. Once connected successfully, the device's LED will stop flashing blue. The "Device Added" page will appear. Then tap "Signal Test" to enter the Wi-Fi signal test mode. Quickly double press the Test/Pair button to enter the next page, then confirm the device is placed in the intended installation location and perform the Wi-Fi signal test. After the test passes, the installation is complete, and you can start using the device.

NOTES:

1. *If you fail to add the device to the network within 120 seconds, the device will automatically exit the network configuration. To re-enter the network configuration, you need to repeat the above steps.*
2. *After adding the thermometer hygrometer, write its name on the provided sticker and attach it to the device for easy management in the future.*

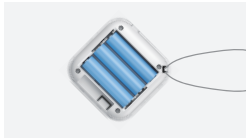
5 Installing Your Device

Installing the Lanyard (Optional)

1. Locate the casing notch indicated by the arrow on the back of the device, then use your thumb or a slot-type screwdriver to open the back cover from the notch.



2. Thread the lanyard through the tab, making sure it is securely attached.



3. Close the back cover.



4. The device can be hung in any desired location with the lanyard.



Using Your Thermometer Hygrometer

NOTE: The iOS user interface is shown; the Android operating system may look slightly different, but functions are the same. App content may differ from the manual due to updates.

Set the Alarm: You can set the temperature and humidity range in the app. When the temperature and humidity levels exceed this range, the app will show an alarm pop-up and send a push notification to your phone. To select the temperature and humidity you want to track, use the slider or make a selection from the dropdown list.

The screenshot shows two sections for setting alarms. The first section, 'Temperature Alarm', features a horizontal slider with blue circles at the ends, labeled '-40°F' and '140°F'. Below the slider are two rows: 'Max' with a dropdown arrow and '140°F >', and 'Min' with a dropdown arrow and '-40°F >'. The second section, 'Relative Humidity Alarm', also has a horizontal slider labeled '0%' and '100%'. Below it are two rows: 'Max' with a dropdown arrow and '100% >', and 'Min' with a dropdown arrow and '0% >'.

Unit Switch: Switch temperature units displayed in the app to Fahrenheit (°F) or Celsius (°C).

The screenshot shows a control for switching temperature units. It consists of a light gray rectangular box with rounded corners. On the left, the text 'Temperature Unit' is displayed. To the right of the text is a toggle switch. The switch has two positions: '°F' (Fahrenheit) and '°C' (Celsius). The '°F' position is currently selected, indicated by a blue highlight.

Export Data: Export data in CSV format after entering your email address and confirming the date/time range. You can create a data export task by toggling "Scheduled Export" to choose from daily, weekly, and monthly.

The screenshot shows the 'Scheduled Export' settings screen. At the top, there is a toggle switch for 'Scheduled Export' which is turned on (red). Below this are several settings, each with a dropdown arrow: 'Export Frequency' set to 'Daily', 'Time of Export' set to '09:00', and 'Data Export Interval' set to '1 minute'. A red text note below 'Export Frequency' says 'Export data from 00:00 to 24:00 for each export.' Below these settings is a section titled 'Select your device(s) from which data will be exported (checkbox supported)'. Under this section, the option 'Thermo-hygrometer' is listed with a red checkmark in a box to its right.

Alarm Interval Feature

When this feature is enabled (disabled by default), after the device triggers an alarm and then returns to the normal range, temperature and humidity fluctuations will not trigger another alarm during the interval you set. This helps prevent excessive push notifications.

Test Mode

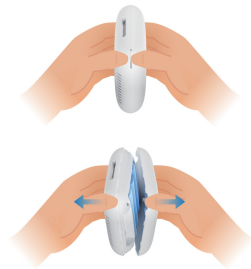
You can initiate a test by briefly pressing the Test/Pair button (less than 3 seconds). The device's LED will light up blue continuously for 10 seconds. After the test is completed, if the device is functioning properly, a push notification will be sent to your phone.

6 Battery Replacement

1. Locate the casing notch indicated by the arrow on the back of the device, then use your thumb or a slot-type screwdriver to open the back cover from the notch.



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2. Install the batteries. Ensure battery polarities are matched correctly.
3. Close the back cover by gently pressing it back into place until it clicks.



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7 Maintenance

1. The thermometer hygrometer is rated to operate in environments with temperatures ranging from -4°F to 140°F (-20°C to 60°C) and humidity from 0 to 99% RH. The recommended long-term operating temperature range is 14°F to 140°F (-10°C to 60°C).
2. Always handle this device with care and do not attempt to disassemble.
3. Do not immerse this device in water.

8 Technical Specifications

Product Name	Thermometer Hygrometer
Model	STH0C
Power Supply	1.5 V (AAA) AA alkaline battery × 3 (replaceable)
Product Life	5 years
Battery Life	Shorter reporting intervals reduce battery life. At a 10-minute interval with new batteries and normal Wi-Fi, battery life is about 6 months.
Indicator Light	Red/Green/Blue
Operating Temperature	-4–140°F (-20–60°C)

Operating Humidity	0–99% RH	
Operating Frequency	2400–2483.5 MHz (incompatible with 5 GHz Wi-Fi network)	
Temperature Accuracy	-4–32°F (-20–0°C)	Typical accuracy: ± 0.36 – 0.72°F (± 0.2 – 0.4°C); Maximal accuracy: ± 0.72 – 1.26°F (± 0.4 – 0.7°C)
	32–140°F (0–60°C)	Typical accuracy: $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$); Maximal accuracy: $\pm 0.72^{\circ}\text{F}$ ($\pm 0.4^{\circ}\text{C}$)
Humidity Accuracy	10–90% RH	Typical accuracy: $\pm 2\%$ RH; Maximal accuracy: $\pm 3.5\%$ RH
	0–10%/90–99% RH	Typical accuracy: ± 2 – 3% RH; Maximal accuracy: ± 3.5 – 5% RH
Number of Allowed Devices	One app account can create up to 5 houses. Each house can add 1 base station and 49 Wi-Fi products. The Wi-Fi products can include this product as well as other X-SENSE Wi-Fi products.	
App	X-SENSE Home Security (both Android and iOS supported)	
Wi-Fi Transmission Range	Within the router's coverage area	

Wireless Protocol	IEEE 802.11b/g/n
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NOTE: The above humidity accuracy data is measured at a constant temperature of 77°F (25°C). When the temperature changes, the accuracy may be affected.

9 Troubleshooting

Problem	Solution
It is unclear whether it can be used in a refrigerator or freezer.	It is not recommended to use the thermo-hygrometer in a refrigerator or freezer. Low-temperature environments can shorten battery life and affect device connectivity. The recommended long-term operating temperature range is 14°F–140°F (-10°C–60°C).
It is unclear whether it can be used long-term in a high-humidity environment.	Since the device is not waterproof, it is not recommended for long-term use in high-humidity environments (above 80% RH, where condensation may occur).

It is unclear how to set the alarm range.	Tap on the thermo-hygrometer on the app's device page to access "Device Settings". Under "Temperature Alarm" and "Relative Humidity Alarm" settings, select the temperature and humidity you want to track by moving the slider or choosing from the dropdown list.
The thermo-hygrometer doesn't immediately display the correct temperature when the ambient temperature changes significantly.	Cause: When the thermo-hygrometer experiences a large temperature change, such as being moved from a warm living room to a cold basement, it requires time to adapt before showing accurate readings. Depending on the temperature difference and surrounding conditions, this process may take several minutes to several hours. Solution: None.
The app doesn't update the data every minute.	To conserve battery power, the device is designed to report data at intervals of 10, 20, 30, or 60 minutes, which you can set freely. Please note: 1. Regardless of the selected reporting interval, the device records data every minute. For example,

	if a 10-minute interval is selected, the device will upload data from the past 10 minutes (one data point per minute) every 10 minutes. 2. If the temperature or humidity exceeds the set thresholds, an alarm notification will be sent immediately without waiting for the next reporting interval.
The device's temperature and humidity readings change at a different speed compared to other thermo-hygrometers when placed together.	Cause 1: Testing the device in a refrigerator or freezer can lead to abnormal readings, as it is not designed for such environments. Solution: None. Cause 2: Variations in the surrounding environment, placement, or nearby objects can significantly affect readings. Solution: None. Notes: 1. Allow time for the readings to stabilize. Depending on the temperature and environment, this may take several minutes to several hours. 2. This device is designed for long-term, stable

	monitoring to ensure accuracy and a lifespan of over 5 years. Its temperature and humidity response may be slightly slower than products designed for rapid response but lower stability.
After the device has been used for a period of time in a high-humidity environment (such as a greenhouse), the app continuously displays -40°C/-40°F, or the LED indicator remains constantly on and does not turn off automatically.	STH0C is not recommended for long-term use in extreme high-humidity environments where condensation may occur, as this may cause malfunction or damage. If abnormal behavior is observed when the device is used in such conditions, remove the batteries, wipe away any moisture from the exterior and the battery compartment, and place the product in a well-ventilated, dry area to air-dry for at least 24 hours (keep the battery compartment open). Then insert new batteries. If the device does not return to normal operation, replace it with a new unit.

It is unclear how to export the data.	In the app, tap on the thermo-hygrometer on the app's device page, scroll to the bottom of the screen, and tap the "Export Data" button. You can export a maximum of six months (180 days) of data at a time; adjust the date range if needed. To export data for an entire year, perform the export in two separate batches.
It is unclear how to calibrate the temperature and humidity.	The device has been calibrated using precision instruments and typically does not require further calibration. However, you can tap on the thermo-hygrometer on the app's device page to access "Device Settings". Under the "Calibration" setting, adjustments made here will take effect the next time the device reports data, or you can press the device's test button once to apply the calibration immediately.
The device cannot be added to the app.	Cause 1: The Wi-Fi name and/or password entered are wrong. Solution: Enter the correct Wi-Fi name and password. Cause 2: The device is not connected to 2.4 GHz Wi-Fi.

	Solution: This device works with 2.4 GHz Wi-Fi (not compatible with 5 GHz networks). Cause 3: The phone's Bluetooth is not turned on. Solution: Turn on the phone's Bluetooth. Cause 4: The device is not entering pairing mode. Solution: Follow the app instructions and press and hold the device's Test/Pair button for 5 seconds. The LED will flash blue rapidly, indicating it has entered Wi-Fi pairing mode.
The app push notification is delayed or there are no push alerts.	Cause 1: The device's batteries have run out. Solution: Replace the batteries. Cause 2: The app push notification permission is disabled. Solution: Turn on the push notification permission on the phone. Cause 3: The communication between the device and router is not stable or they are too far apart. Solution: Reduce the obstacles between the device and router, and ensure that the device is within the router's coverage area.

Cause 4: The network connection of the router and the mobile phone is abnormal.
Solution: Make sure the network connection of the router and the mobile phone is normal.

10 Battery Warning

WARNING

1. KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN.
2. In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected

area with copious amounts of water and seek medical advice immediately.

3. NEVER charge a battery unless it is a rechargeable battery.
4. Do not mix alkaline, standard (carbon-zinc) or rechargeable (Ni-Cd; Ni-MH) batteries.
5. Different types of batteries or new and used old batteries are not to be mixed. Do not mix batteries of different manufacturers, capacities, or sizes.

6. Batteries must be inserted with the correct polarity. Replacement of a battery with an incorrect type can defeat the safeguard. There will be a risk of fire or explosion if a battery is replaced by an incorrect type.
7. Test the thermometer hygrometer for correct operation using the test facility, whenever the battery is replaced.

11 Statement

FCC Statement

1. 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.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Note: This equipment has been tested and found to comply with the limits for a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
 - Connect the equipment to 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.

3. Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
4. The distance between user and products should be no less than 20 cm.

Environmental Protection

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that all electrical and electronic products, batteries, or accumulators must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws and rules in your area.



12 Manufacturer and Service Information

X-Sense Electronics Co., Ltd.

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Scan the QR code to view the product model.

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