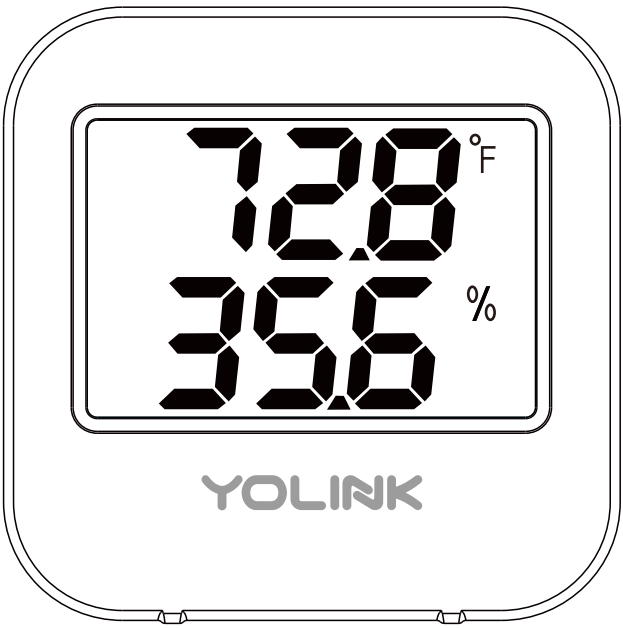


Temperature & Humidity Sensor

YS8003-UC

Installation & User Guide

Revision May. 20, 2025

Contents

A Welcome!

Thank you for purchasing YoLink products! We appreciate you trusting YoLink for your smart home & automation needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.

Thank you!

YoLink Customer Support

User Guide Conventions

The following icons are used in this guide to convey specific types of information:

Very important information (can save you time!)

Good to know info but may not apply to you

B Before You Begin

Visit our Temperature & Humidity Sensor support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

https://www.yosmart.com/support/YS8003-UC

Or by scanning the QR code:

Download the most current version of the user guide by scanning the QR code:

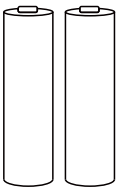
B Before You Begin, Continued

Your Temperature & Humidity Sensor connects to the internet via a YoLink hub, and it does **not** connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required. This guide assumes the YoLink app has been installed on your smartphone, and a YoLink hub is installed and online (or your location, apartment, condo, etcetera, is already served by a YoLink wireless network).

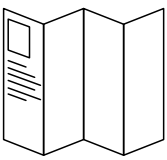
To provide years between battery changes, your sensor refreshes at least once an hour or more frequently if the SET button is pressed or if the temperature or humidity change meets refresh criteria as explained in the user guide.

C In the Box

Temperature & Humidity Sensor



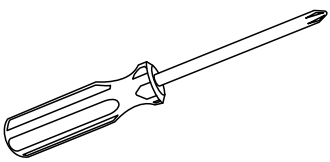
2 x AAA Batteries (Installed)



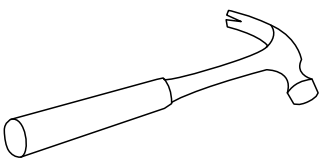
Quick Start Guide

D Required Items

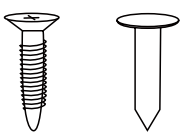
You may require these items:



Small and/or Medium Phillips Screwdriver



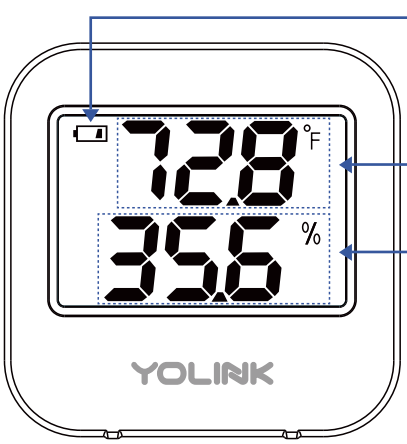
Hammer

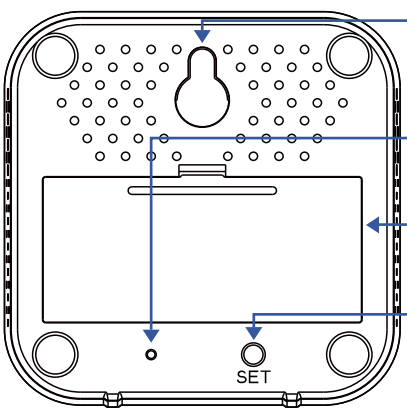


Nail or Self Tapping Screws

Double-sided Mounting Tape or Velco

E Get to Know Your Sensor





LED Behaviors

Blinking Red Once, then Green Once
Device turned on

Blinking Red And Green Alternately
Restoring to Factory Defaults

Blinking Green Once
Switching temperature mode

Blinking Green
Connecting to Cloud

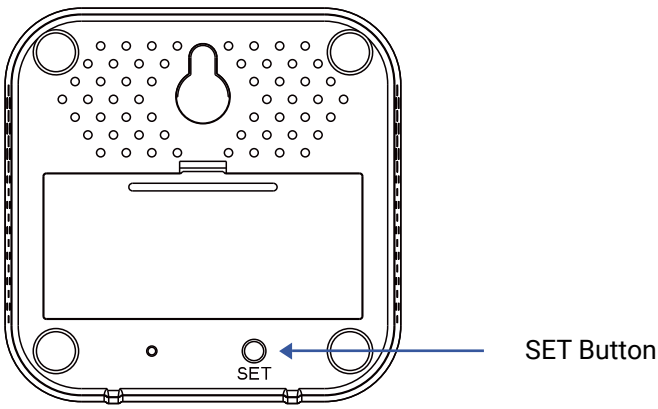
Slow Blinking Green
Updating

Blinking Red Once
Device alerts

Fast Blinking Red Every 30 Seconds
Batteries are low; please replace the batteries

F Power Up

Turn on the Temperature & Humidity Sensor by briefly pressing the SET button, until you see the LED flash red then green.



G Install the App

If you are new to YoLink, please install the app on your phone or tablet, if you have not already. Otherwise, please proceed to the next section.

Scan the appropriate QR code below or find the “YoLink app” on the appropriate app store.

Download on the App Store

Apple phone/tablet
iOS 9.0 or higher

Available on Google Play

Android phone/tablet
6.0 or higher

Open the app and tap **Sign up for an account**. You will be required to provide a username and a password. Follow the instructions, to set up a new account. Allow notifications, when prompted.

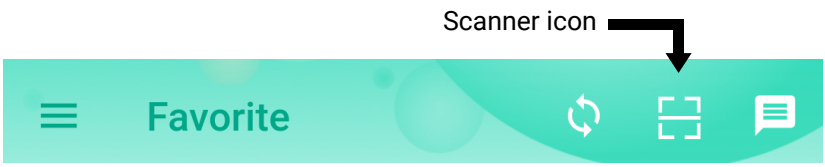
You will immediately receive a welcome email from no-reply@yosmart.com with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

Log in to the app using your new username and password.

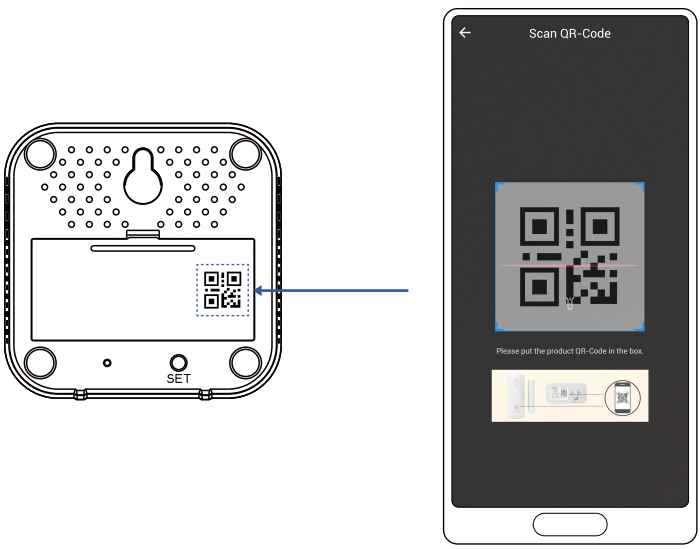
The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later.

H Add Your Sensor to the App

1. Tap **Add Device** (if shown) or tap the scanner icon:



2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.

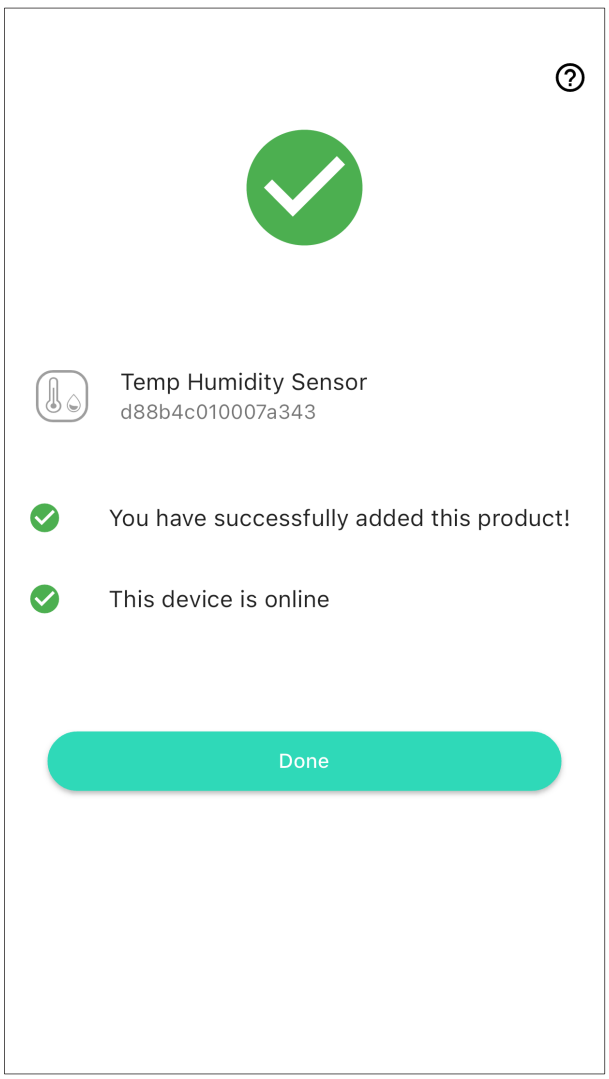


3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

H Add Your Sensor to the App, Continued

4. You can change the device name and assign it to a room later. Tap **Bind device**.

5. If successful, the screen will appear as shown. Tap **Done**.



Installation

Environment Considerations:

Determine an appropriate location for your sensor.

Please note: the Temperature & Humidity Sensor is intended for indoor use, at dry locations. Refer to the product support page for the full environmental specifications.

- Consider our Weatherproof Temperature & Humidity Sensor for outdoor locations.

- If you plan to use this sensor in a freezer, ensure the sensor does not get wet during defrosting cycles.

Installation, Continued

Location Considerations:

If placing the sensor on a shelf or countertop, ensure it is a stable surface. If hanging or mounting the sensor on a wall, ensure the mounting method is secure, and the location does not subject the sensor to physical damage. The warranty does not cover physical damage

- Do not place the sensor where it may get wet
- Do not place the sensor where it will be subjected to direct sunlight
- Avoid placing the sensor near HVAC grilles or diffusers

Installation, Continued

Install the Sensor:

1. Before installing or placing your sensor, ensure the display mode is correct for your application. To switch between Celsius and Fahrenheit display mode, briefly press the SET button (on the rear of the sensor).

2. If placing the sensor on a shelf or countertop or other stable service, place the sensor where desired, then proceed to proceed to step 5.

3. Before mounting or hanging the sensor on the wall or vertical surface, determine your desired method:

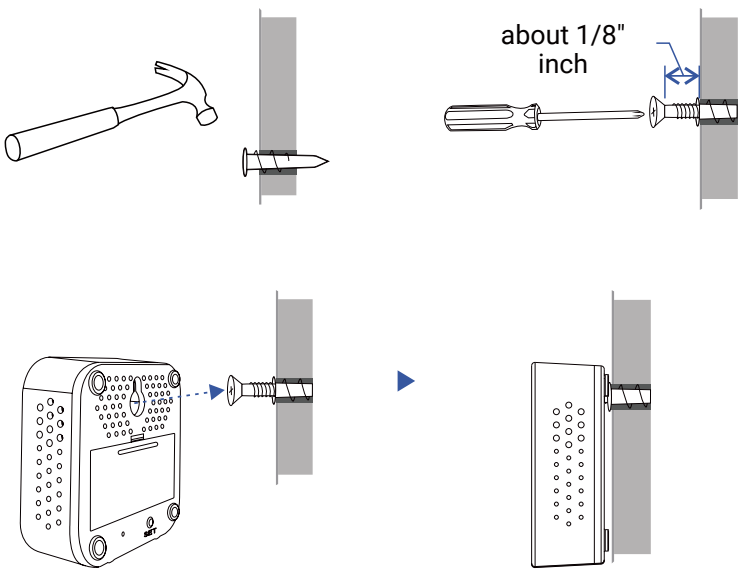
- Hang the sensor from a nail or screw or small hook.

- Hang or mount the sensor by other methods, such as 3M brand Command hooks.

- Secure the sensor to the wall using mounting tape, Velcro or similar methods. If affixing something to the rear of the sensor, be aware of the impact of covering the SET button or LED, and allow for battery replacement in the future.

Installation, Continued

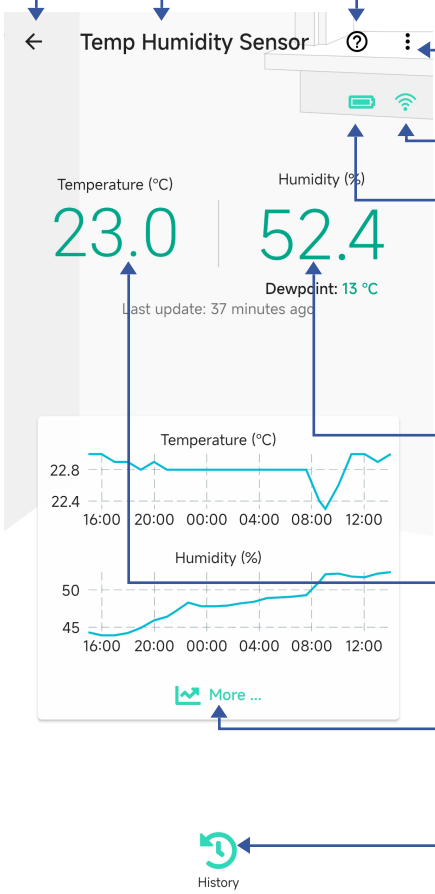
4. Mount or hang the sensor on the wall or vertical surface using your desired method. (Insert a screw into the wall, hammer a nail into the wall, etc.)



5. Allow your sensor at least one hour to stabilize and report the correct temperature and humidity to the app. Refer to the full installation & user guide for instructions on calibrating your sensor, if it does not appear to indicate the correct temperature and/or humidity.

J App Functions: Device Screen

In the app, tap on your Temperature & Humidity Sensor icon. Your Temperature & Humidity Sensor main screen should be similar to the one shown below.



Tap to Exit This Screen

Device Name

Tap for Contact & Support Resources

Tap for Device Details Screen

Signal Strength

Battery Level
Green = batteries are good
Red = replace batteries soon

Latest Refresh Humidity
Green: Normal; Red: Warning

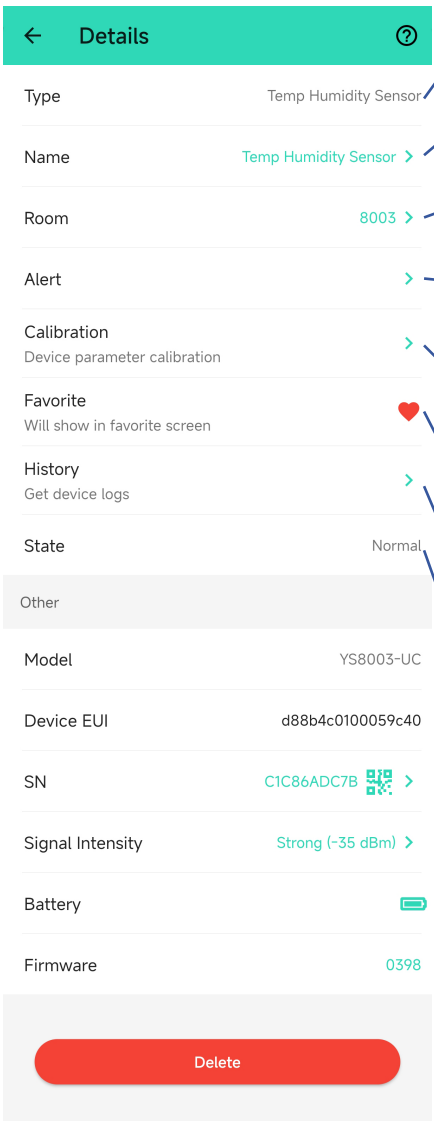
Latest Refresh Temperature
Green: Normal; Red: Warning

Tap to view and export historical temperature and humidity data charts

Device Alert History
Tap to view and download alert historical logs

K App Functions: Device Details Screen

Tap the three dots (in the upper right corner) to open the Temperature & Humidity Sensor **Details** screen. Your Temperature & Humidity Sensor screen should be similar to the one shown below.



Device Type

Device Name
(Tap to Edit)

Room
(Tap to Edit)

Alert
Tap to edit Alert Settings
(see Alert Settings Screen)

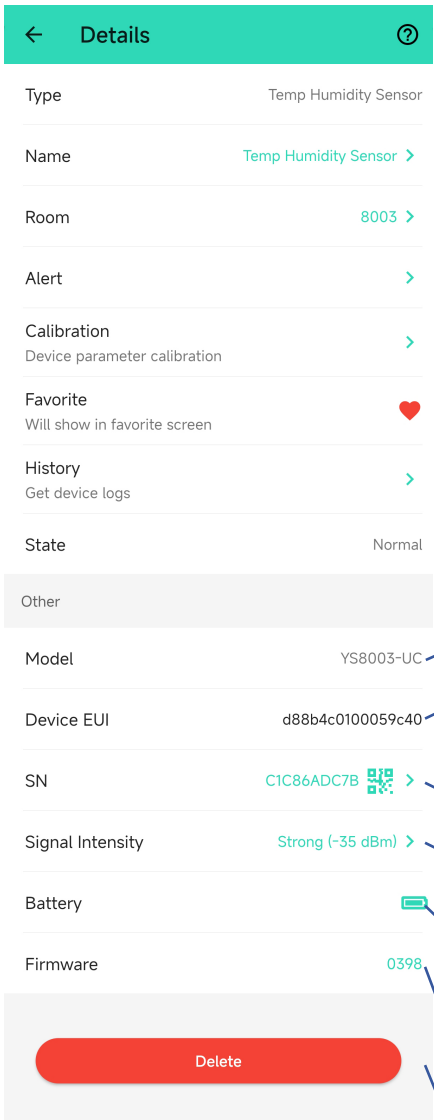
Calibration
Tap to calibrate the sensor
(see page 22)

Favorite
(Red if Favorite, Tap to Edit)

History
Tap to view device history

State
General status of the device
(Normal, Offline, Warning, etc.)

K App Functions: Device Details Screen, Continued



Model Number

Device EUI
Unique Identifier Number

Device Serial Number

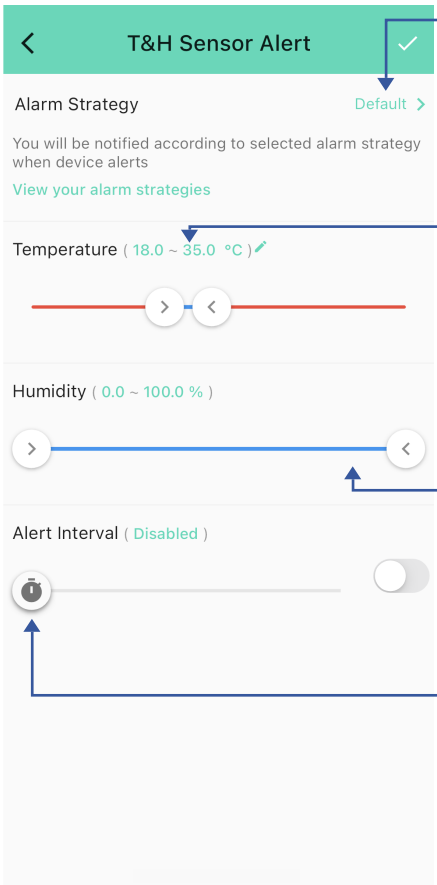
Signal Intensity
(From YoLink Hub)

Battery Level Indicator
If red, batteries are low; replace batteries soon.

Firmware Revision
(Refer to page 34)

Remove Device From Current Account
Tap to delete the device from your YoLink account

L App Functions: Alert Settings Screen



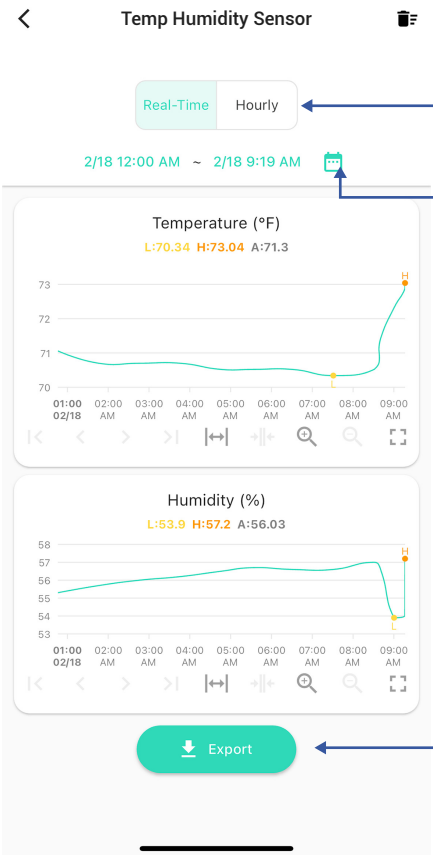
Alarm Strategy
Tap to edit the sensor's Alarm Strategy

Tap here to open the digital temperature alert settings

Tap the slider control and adjust the high or low alert value. The "normal" range will be displayed in blue text as a low alert value, to the high alert value.

Alert interval
Choose how often you want to be reminded after an alert.

App Functions: Chart Screen



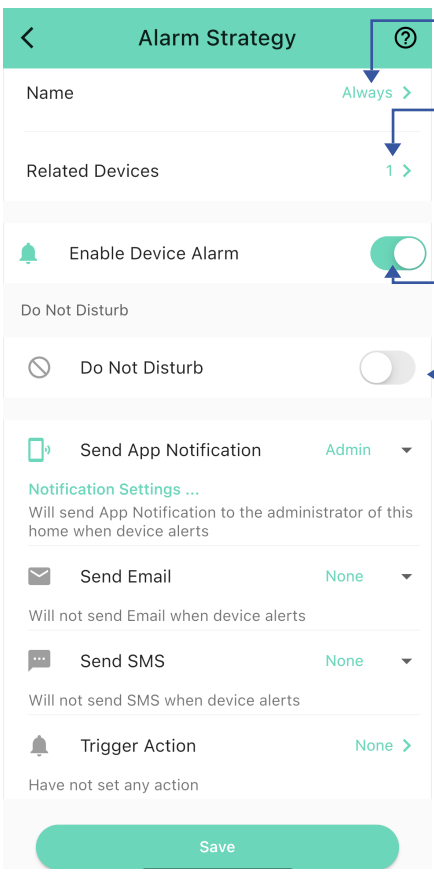
Tap to select real-tim or hourly data

Tap to select time range

Tap to export data

App Functions: Alarm Strategy Screen

You can set up notifications in Alarm Strategy settings, make sure you have enabled App, Email, SMS notification from the app->Menu->Settings->Account Settings->Advanced Settings, and verified your email address and added your phone number in the app.



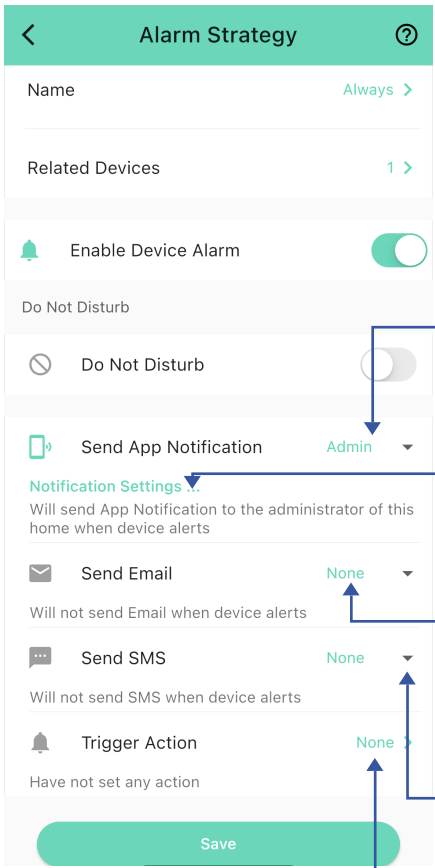
Strategy Name
Tap to edit the name

Related Devices
Tap to add more devices (that can alert) to this strategy, a device can be related to only one strategy

Tap to enable or disable the strategy

Tap to set up DND (Do Not Disturb)

App Functions: Alarm Strategy Screen



Send App Notification
Tap to select Admin to enable App push, select All, if desired for all members

Notification Settings (iOS only)
Tap to change notification tone, if desired

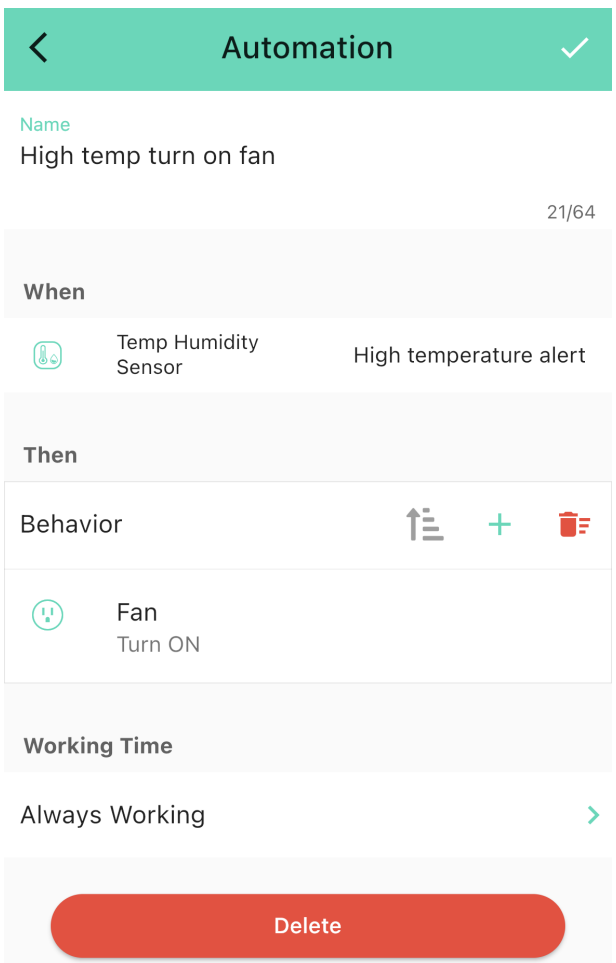
Send Email
Tap to select Admin to enable email notification, select All, if desired to send to all members

Send SMS
Tap to select Admin to enable limited text messages, select All (subscribe required-starter or standard plan), if desired to send to all members

Trigger Action
Tap to choose trigger actions (YoLink sirens, YoLink SpeakerHubs, scene)

App Functions: Automation

The Temperature & Humidity Sensor can be set up as a condition in an automation. For example, you can automatically turn on a fan if the sensor detects a high temperature. This example is shown below. The automation also sends a custom notification (via app push notification, email SMS, or SpeakerHub broadcast) reminding you the sensor detects high or low temperature or humidity.



Sensor Calibration

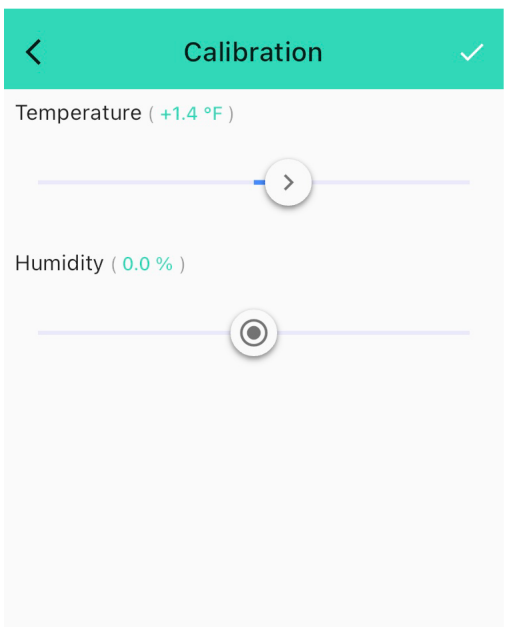
Your Temperature & Humidity Sensor has a high-accuracy digital sensor that has been calibrated at the time of manufacture. Your sensor readings should always be accurate, but if you believe the sensor is not accurate and/or if you have a thermometer or trusted sensor, etc. that displays a different reading, you can adjust the humidity and temperature readings with a plus or minus offset of your choice. For example, if a calibrated or trusted thermometer reads 0.5 degrees higher than your sensor, you can adjust, or calibrate, the sensor reading to be 0.5 degrees higher than it normally displays.

Sensor Calibration, Continued

How to Calibrate Your Sensor:

1. Open the sensor's **Details** screen and tap Calibration.

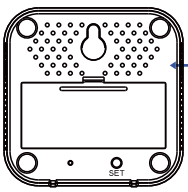
2. The Calibration screen is displayed, as shown below. To calibrate the temperature or humidity, tap and hold the associated slider bar control, then slide the control to the right, for a positive offset, or to the left, for a negative offset. The offset will be displayed with a “+" or “-" number. For example, to adjust the humidity plus 1.5 percent, tap and hold the Humidity control, and slide it slowly to the right, until “+1.5%" is displayed.



3. Tap the checkmark, to save your settings.

Q Sensor Refresh Frequency

Both temperature and humidity values refresh when one of the following conditions are met:



a. The SET button has been pressed

b.

- When temp is over 32°F(0°C), at least 0.9°F (0.5°C) change over a period longer than 1 minute;
- When temp is between 14°F(-10°C) and 32°F(0°C), at least 2.7°F (1.5°C) change over a period longer than 1 minute;
- When temp is between 5°F(-15°C) and 14°F(-10°C), at least 3.6°F (2°C) change over a period longer than 1 minute;
- When temp is below 5°F(-15°C), at least 9°F (5°C) change over a period longer than 1 minute.

Sensor Refresh Frequency, Continued

c. At least 3.6°F (2°C) change within 1 minute

d. At least 5% change over a period longer than 1 minute

e. Device alert level reached or restored to normal range

---

d. Otherwise, the values will be refreshed automatically once an hour

3rd-Party Services

The YoLink Temperature & Humidity Sensor works with several voice assistants, including Alexa and Google, and it works with other automation platforms such as IFTTT.

To set up voice assistant integrations, in the app, go to Settings, Third-Party Services, and follow the instructions.

Please note, IFTTT supports Temperature & Humidity Sensor as a trigger action (High Temp, Low Temp, High Humidity, or Low Humidity) in the routine.

Alexa now includes the capability to query the temperature of a device and utilizes the Temperature & Humidity Sensor for initiating trigger actions, based on high or low temperature (note that humidity-triggered actions are not supported).
Notably, in the Alexa interface, these temperature conditions are represented as motion sensors. For instance, when setting up a routine in Alexa, you can select "Sunroom Temp Humidity | High Temperature - Motion Detected" as the condition under the "when" section to initiate the routine.

3rd-Party Services, Continued

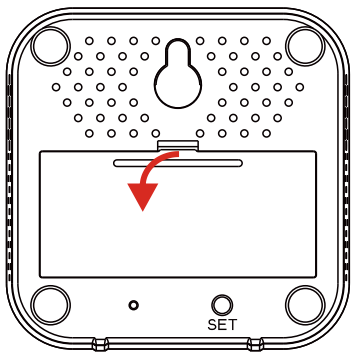
Google only supports querying the temperature or humidity of the devices.

For example, edit the name of the device in Alexa or Google to “Sunroom", then you can ask: “Echo, what is the sunroom temperature?"

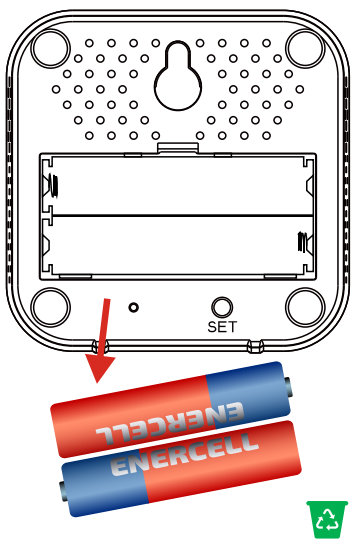
You can also try, “Alexa, what is the temperature of the Sunroom sensor?"

Battery Replacement

1. Remove the battery cover by gently prying with your fingertip or tool at the edge as shown

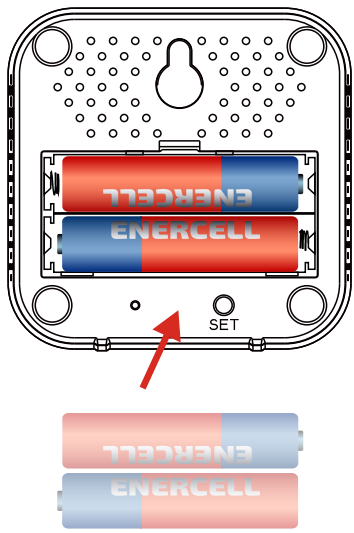


2. Remove the old batteries

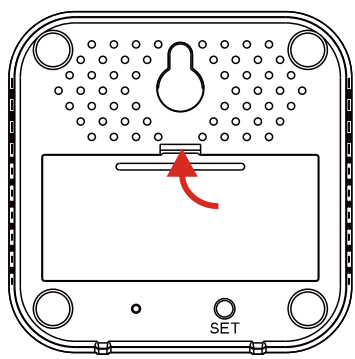


Battery Replacement, Continued

3 Install two new alkaline non-rechargeableAAA batteries, and then close the batterycover



4 Close the battery cover



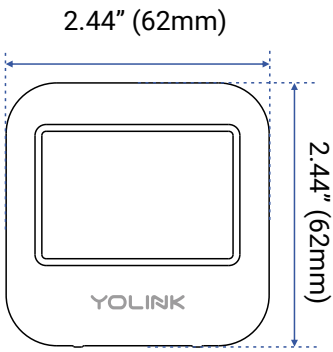
Specifications

Voltage:	3V DC (2-Alkaline Non-Rechargeable AAA batteries)
Device Current Draw:	≤ 135mA (operating), ≤ 40uA (standby)
Sensor Types:	Temperature, Humidity
Temperature Value Accuracy:	0.1 (°F/°C)
Humidity Value Accuracy:	0.1%
Dimensions, Imperial (L x W x D):	2.44 x 2.44 x 0.93 inches
Dimensions, Metric (L x W x D):	62 x62x 23.5 mm
Temperature Error (Typical):	±0.3°C(±0.54°F)

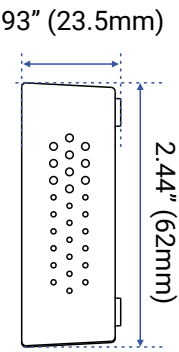
Specifications, Continued

Humidity Error (Typical, @77°F (@25°C)):	10% - 90%, ±2% 0%-10% / 90%-100%, ±3%
Environment:	Working Temperature: 14°F - 122°F (-10°C - 50°C) Working Humidity: ≤95% (non-condensing)

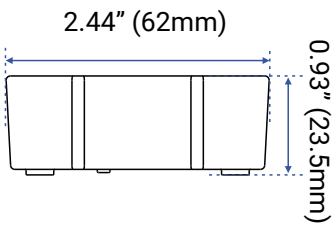
Specifications, Continued



FRONT



SIDE

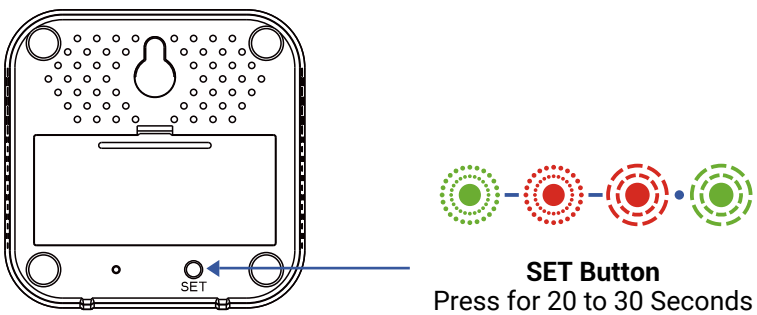


TOP

Factory Reset

When directed by customer support, and/or as an attempt to resolve a problem with your Temperature & Humidity Sensor, it may be necessary to perform a factory reset. Factory resetting your sensor returns it to the factory default programming and settings. This is a simple process:

> Hold the SET Button for 20 to 30 seconds, until the LED blinks red and green alternately, then release the button.



Factory reset is complete when the LED stops flashing.

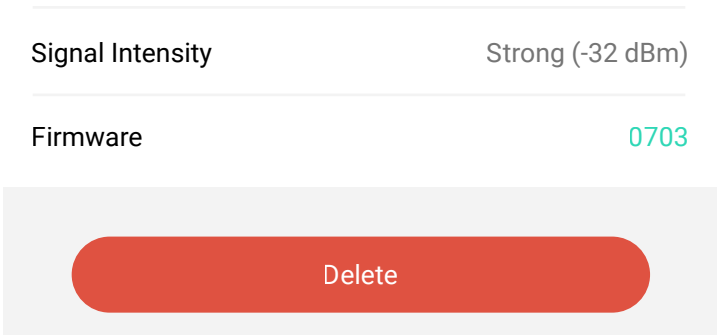
🤔

Only deleting a device from the app will remove it from your account

Firmware Updates

Your YoLink products are frequently being improved, with new features and functions added over time. It is periodically necessary to make changes to your device firmware. For optimal performance of your device, and to give you access to any improvements made to your device model, these firmware updates should be installed (added to your device) when they become available.

In the **Details** screen of your device, you will see the Firmware section, as shown in the image below. A firmware update is available if it says "#### ready now" (where #### is a four-digit combination of letters and/or numbers).



V Firmware Updates, Continued

Firmware is like settings in your sensor that define the overall operations of the sensor. These settings are added to the sensor when it is manufactured, and they are periodically updated, as needed, to add improvements, new features, new integrations, etc, to your sensor, as they become available.

Tap in the Firmware area to start the update. The sensor will update automatically, indicating the progress by percentage-complete. You may use your sensor during the update process, as the update is performed “in the background”. You may see the LED slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.

If you experience incomplete firmware updates, please update only one device at a time. If this does not resolve the problem, please contact our customer support department!

Troubleshooting

Problem:
Sensor is offline or has a low signal status.

Possible Solution:
a) Signal strength for the sensor is too low at that location. Move the sensor closer to the hub, relocate the hub closer to the sensor (if possible), or add another hub (to extend the signal range).

b) If offline, confirm the hub is powered on and connected to the internet. Otherwise, move sensor and/or hub or add a hub.

Problem:
Sensor displays temperature in F when C is needed or vice versa.

Solution:
Press the SET button briefly to toggle the display mode between C and F.

Troubleshooting, Continued

Problem:
Sensor temperature or humidity is not accurate, compared to another sensor

Possible Solution:
Your Temperature & Humidity Sensor does have a Calibration feature, that allows for adjusting the displayed temperature or humidity, to match that of a trusted temperature or humidity measuring device or method. See the Calibration section on page 22.

If this does not resolve the issue, please contact our customer support department (see the contact info on the last page of this guide).

We recommend checking for and performing any available firmware updates before contacting customer support. See Firmware Updates, page 34.

Warnings

Please install, operate and maintain the Temperature & Humidity Sensor only as outlined in this manual. Improper use may damage the unit and/or void the warranty

Use only new, name brand, lithium non-rechargeable AA batteries

Do not use rechargeable batteries

Do not use zinc blend batteries

Do not mix new and old batteries

Do not puncture or damage batteries. Leakage can cause harm on skin contact, and is toxic if ingested

Do not dispose of batteries in fire as they may explode! Please follow local battery disposal procedures

To avoid damaging the device, if storing the device for an extended period, remove the batteries

Refer to Specifications (page 31) for the device environmental limitations.

Do not obstruct the openings on the housing, as they are used for temperature and humidity sensing

Do not install or use this device where it will be subjected to high temperatures and/or open flame

Warnings, Continued

This device is not waterproof and is designed and intended only for indoor use.

Subjecting this device to outdoor environment conditions such as direct sunlight, extreme hot or cold temperatures, rain, water and/or condensation can damage the device and will void the warranty

Install or use this device only in clean environments.

Dusty or dirty environments may prevent the proper operation of this device, and will void the warranty

If your Temperature & Humidity Sensor does get dirty, please clean it by wiping it down with a clean, dry cloth.

Do not use strong chemicals or detergents, which may discolor or damage the exterior and/or damage the electronics, voiding the warranty

Do not install or use this device where it will be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty

Please contact Customer Service before attempting to repair disassemble or modify the device, any of which can void the warranty and permanently damage the device

Warranty

2 Year Limited Electrical Warranty

YoSmart Inc. warrants to the original user (“customer”) of this product that it will be free from defects in materials and workmanship, under normal use, for 2 years from the date of purchase. This warranty does not apply to devices that have been improperly installed, modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty does not cover neglected or abused products. This warranty is limited to the repair or replacement of the device, only, at YoSmart's sole discretion. YoSmart will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees. The customer must provide proof of purchase, in the form of the original purchase invoice or order number. The purchase must have been made from an authorized seller.

To implement this warranty please contact us by one of the methods listed on the Contact Us page of this user guide.

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

Note: This equipment 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 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 into an outlet on a circuit different from that to which the receiver is connected.

FCC Statement, Continued

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

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

PRODUCT NAME:
TEMPERATURE & HUMIDITY SENSOR

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS8003-UC

ADDRESS:
25172 ARCTIC OCEAN DRIVE, SUITE 106, LAKE FOREST, CA 92630 USA

EMAIL:
SERVICE@YOSMART.COM

Contact Us

We are here for you, if you ever need any assistance installing, setting up or using a YoLink app or product!

Need help? For fastest service, please email us 24/7 at **service@yosmart.com**

Or call us at **831-292-4831** (US phone support hours: **Monday - Friday, 9AM to 5PM** Pacific)

You can also find additional support and ways to contact us at:
www.yosmart.com/support-and-service

Or scan the QR code:

Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at
feedback@yosmart.com

Thank you for trusting YoLink!

YoLink Customer Support

YOLINK

25172 Arctic Ocean Drive, Suite 106, Lake Forest, CA 92630