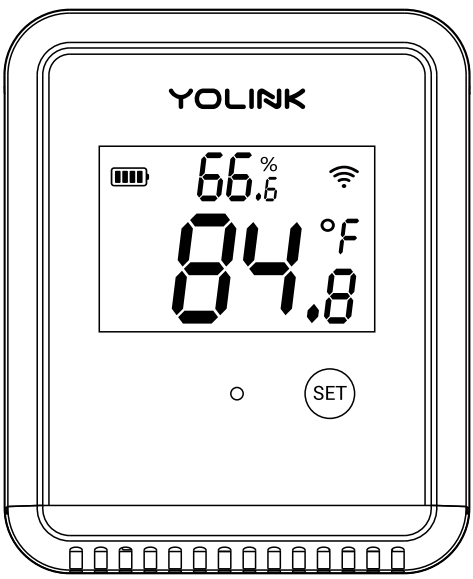
YOLINK



X3
Outdoor Temperature & Humidity Sensor

YS8015-UC

Installation & User Guide

Revision Jan. 26, 2024

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 X3 Outdoor 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/YS8015-UC

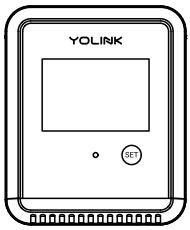
Or by scanning the QR code:

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

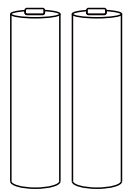
B Before You Begin, Continued

Your X3 Outdoor 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).

C In the Box

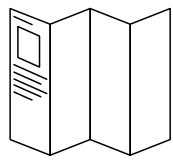


X3 Outdoor Temperature & Humidity Sensor



2 x AA Lithium Batteries (Pre-installed)

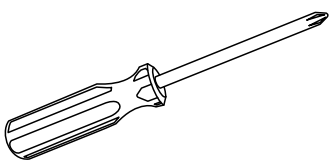
Metal Plate



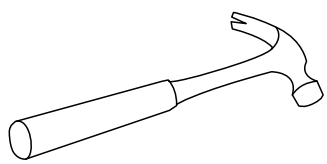
Quick Start Guide

D Required Items

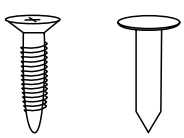
You may require these items:



Small and/or Medium Phillips Screwdriver



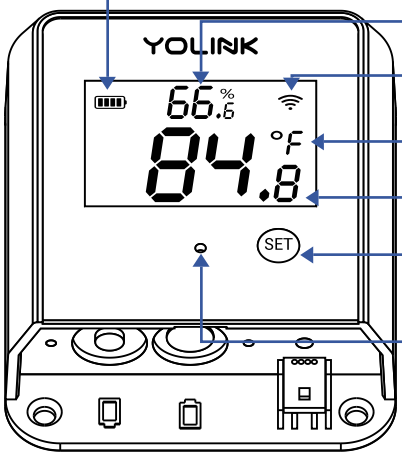
Hammer



Nail or Self Tapping Screws

Double-sided Mounting Tape or Velco

E Get to Know Your Sensor



Battery Level

Humidity

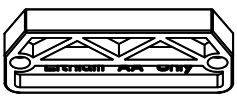
Signal Strength

C/F (Centigrade / Fahrenheit)

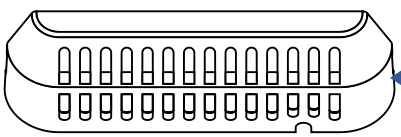
Temperature

Set Button

Status LED



Battery compartment cover



Battery access & mounting cover

LED Behaviors

Blinking Red Once, then Green Once
Device Start-Up

Blinking Red And Green Alternately
Restoring to Factory Defaults

Blinking Green
Connecting to Cloud or Functioning Normally

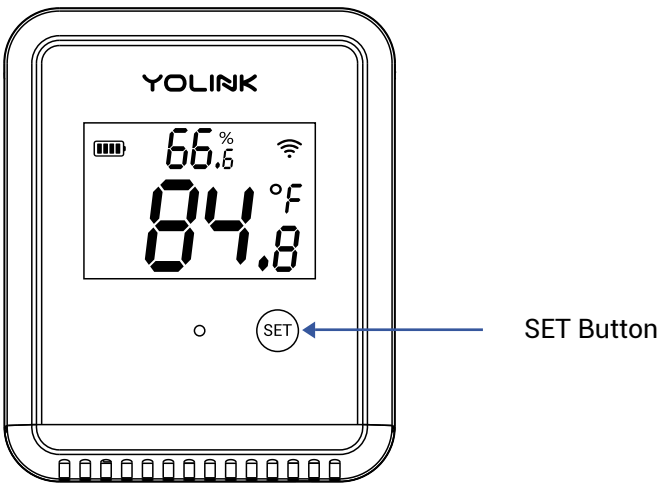
Slow Blinking Green
Updating

Blinking Red Once
Device Alerts

Fast Blinking Red Every 30 Seconds
Low Battery; Replace Batteries Soon

F Power Up

Before you can use your X3 Outdoor Temperature & Humidity Sensor, it must be turned on. (Batteries have been pre-installed.) Press the SET button briefly, until the LED flashes red then green (which indicates it has turned on and connected to a hub and the cloud).



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.

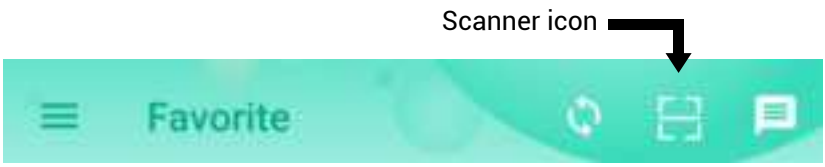
You will immediately receive a welcome email from no-reply@yosmart.com with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

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

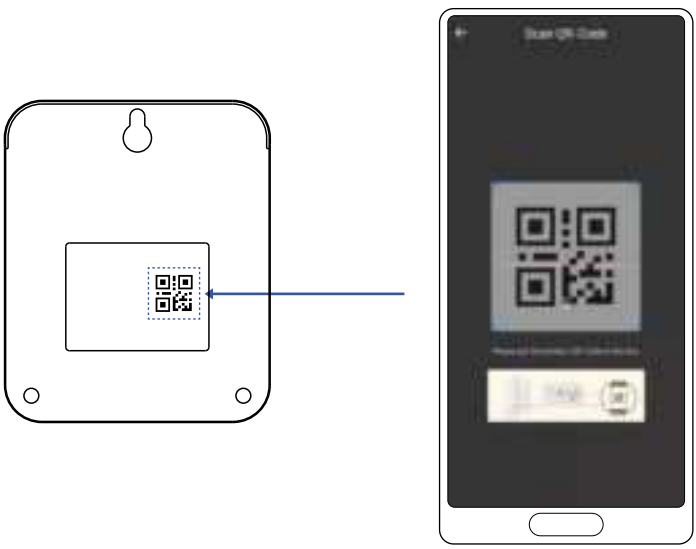
The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later.

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.

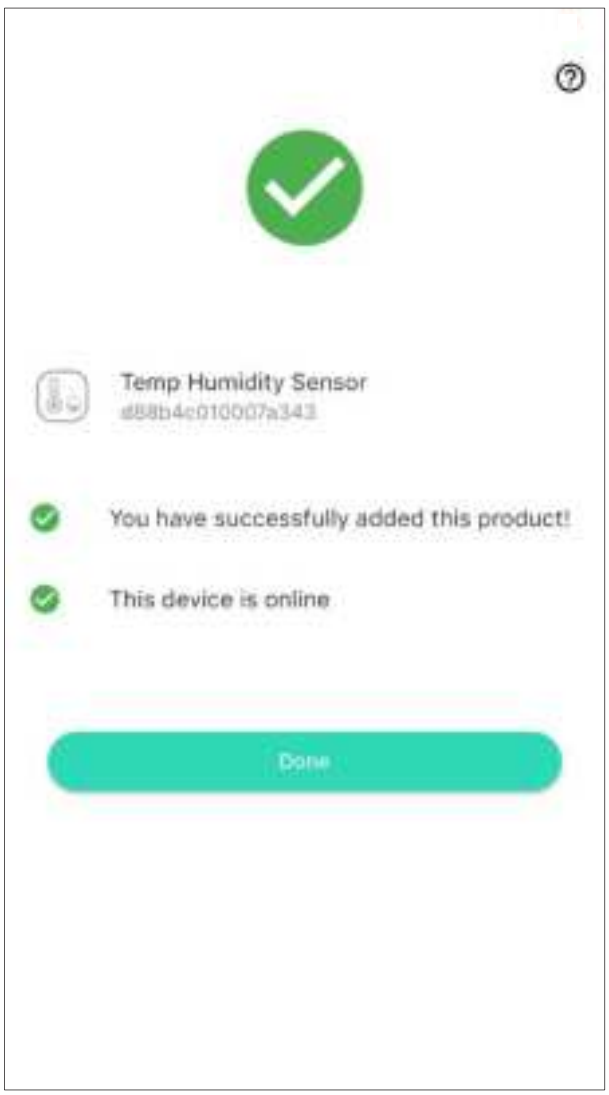


3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

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**.



I Installation

Location & Mounting Considerations

The X3 Outdoor Temperature & Humidity Sensor is designed to be easy to install, and portable, but before installing the sensor, the following items should be considered:

- While the X3 Outdoor Temperature & Humidity Sensor is designed for outdoor use, do not use the sensor outside of the environmental temperature range, per the product specifications (refer to the product's support page).

- The sensor body is designed for outdoor use, but do not allow it to be submerged.

- Do not use the sensor near sources of extreme hot or cold, as this can affect accurate ambient temperature readings, and in some cases may damage the sensor.

- As with most electronic devices, even if intended for outdoor use, the useful life of the device can be extended if it is protected from the elements. Direct intense sunlight, rain and snow over an extended period can discolor or damage the device. Consider placing the sensor where it has overhead cover and/or protection from the elements.

- Place the sensor where it will be out of reach of children.

Installation, Continued

The X3 Outdoor Temperature & Humidity Sensor can be installed or mounted in at least one of four ways:

1. Lay the sensor flat on any stable surface, or placed within an enclosure.

2. Hang the sensor from a nail, screw, or hook, using one or all of the three mounting holes on the rear of the sensor (mounting hardware not included).

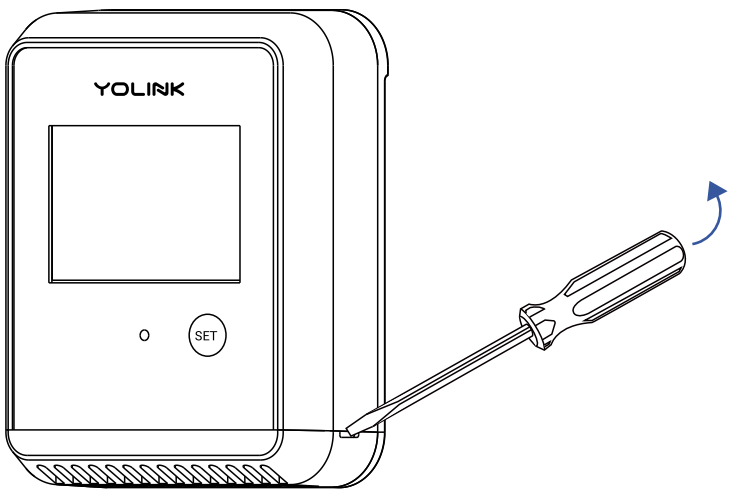
3. Secure the sensor to a wall or vertical surface using the magnet feature with the included metal plate, or by placing it on a suitable surface (that responds to a magnet) without the included plate.

4. Secure the sensor to a wall or vertical surface using alternative fasteners or adhesive methods, such as double-sided mounting tape or Velcro (not included).

Installation, Continued

Wall-mounting method

1. The sensor has a standard "keyhole" notch on the rear, at the top. This allows for hanging the sensor from a nail or screw. Additionally, there are two more mounting holes at the bottom of the sensor. The use of the second and third holes will result in a much more secure mounting method. These holes are hidden behind the removeable access cover. This cover affords protection against tampering and device removal and their use is highly recommended. Refer to the figure below for instructions on how to remove the cover from the bottom of the sensor.

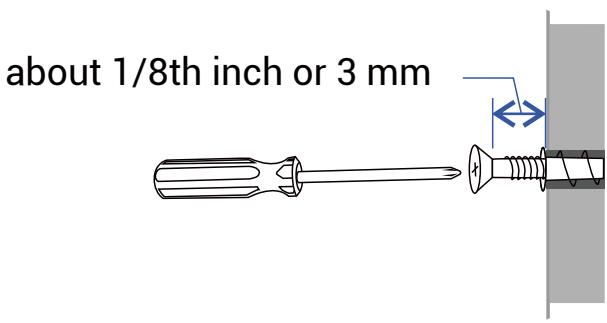


Insert the tip of a slotted screwdriver and then gently twist it to pry off the battery access cover

Installation, Continued

2. If desired, mark or otherwise identify the exact position of your sensor on the wall, including one or all of the mounting points (keyhole at top, two screw holes at bottom). Use a level tool to ensure your sensor will be level, if desired.

3. Your mounting hardware (nails, screws, hooks, etc.) will vary. If using wall anchors, install the anchor(s) at this time, per the wall anchor manufacturer's instructions and/or per appropriate method for your application. Insert the topmost nail, screw, or hook, in the wall, leaving a gap between the nail/screw head and the surface, as shown.



4. Hang the sensor from this topmost screw/nail/hook. If you will not utilize the second and third mounting points, ensure the sensor is secure, and proceed to *Prepare to use your sensor*.

Installation, Continued

5. If not already performed in a previous step, verify the sensor is level prior to pre-drilling or inserting holes for the lower mounting points. Insert one or both screws through the lower mounting holes, tightening them and securing the sensor to the wall.

6. Replace the access cover by pushing it back into place, after aligning the tab on each end with the matching slot in the sensor. Proceed to *Prepare to use your sensor*.

Magnet-mounting method

1. The sensor has a built-in magnet in the back, to allow for mounting it directly to a suitable* metal surface, or the included metal mounting plate can be used for this purpose. After selecting the sensor location, remove the plastic backing from the metal plate, to expose the mounting tape's adhesive side. Place the plate at the desired location, tape side down, and press firmly for at least five seconds. (The surface should first be clean and free of dirt, grease/grime, or any substance that will impact the tape's adhesion to the surface. It is suggested to clean the surface accordingly, such as with rubbing alcohol, and dry it well, before this step).

2. Check that the sensor is secure, and does not move easily. If the sensor does not seem to be secure, please mount your sensor per the wall-mounting method steps.

Installation, Continued

*Suitable surfaces are metallic surfaces responsive to magnets, that allow for a good bond with the sensor's built-in magnet. Uneven, irregular, textured, grooved, etcetera, surfaces may not be suitable. Surfaces subject to vibration and movement are not likely to be acceptable. Verify the surface is suitable and the sensor is secure, as physical damage to the sensor is not covered by the warranty.

Other mounting methods

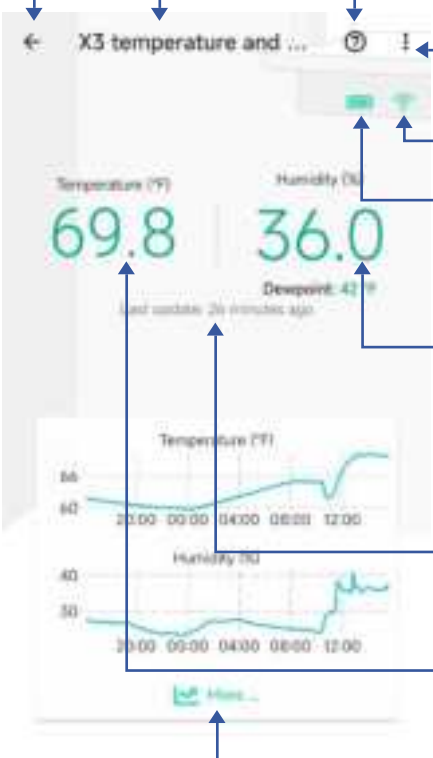
Follow the manufacturer instructions if mounting your sensor by alternative methods, such as with Velcro or double-sided mounting tape. If using an adhesive method, is it recommended to clean and dry the surface, first. Consider the possibilty of replacing or relocating the sensor later, when choosing alternative mounting methods.

Prepare to use your sensor

Allow your sensor around an hour to stabilize and display the correct readings on the LCD display and in the app. If you believe your sensor readings are inaccurate, first refer to Sensor Calibration, page 24.

J App Functions: Device Screen

In the app, tap on your X3 Outdoor Temperature & Humidity Sensor icon. Your X3 Outdoor 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 Time
Sensor refresh frequency (refer to page 26)

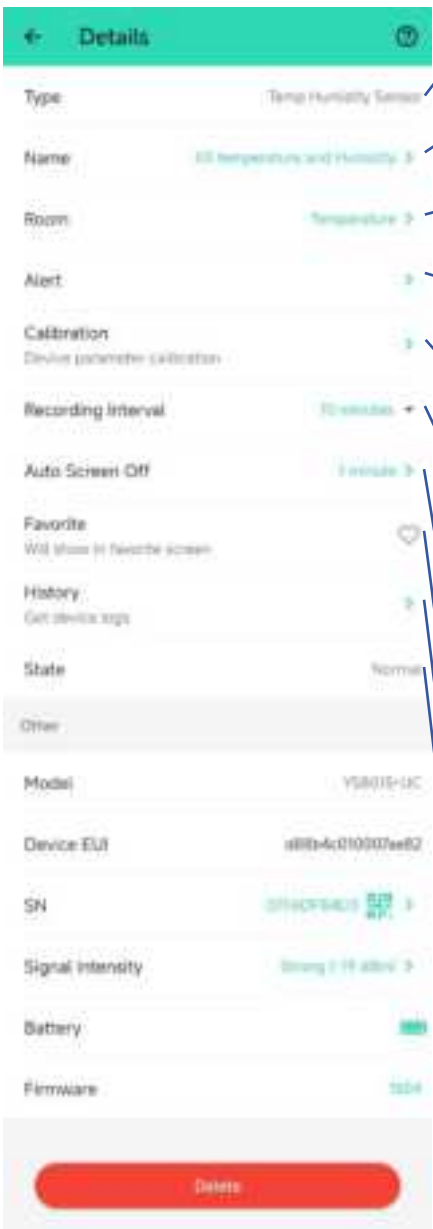
Latest Refresh Temperature
Green: Normal; Red: Warning

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 X3 Outdoor Temperature & Humidity Sensor **Details** screen. Your X3 Outdoor 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)

Calibration
Tap to calibrate the sensor (see page 24)

Recording Interval
Sampling frequency. Standard device offers range from 10 to 60 minutes. For more frequent sampling options, consider subscribing to our Standard Plan.

Auto Screen-Off
Tap to set the duration after which the display will turn off

Favorite
(Red if Favorite, Tap to Edit)

History
Tap to view device history

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

K App Functions: Device Details Screen, Continued

Model Number

Device EUI
Unique Identifier Number (Unique)

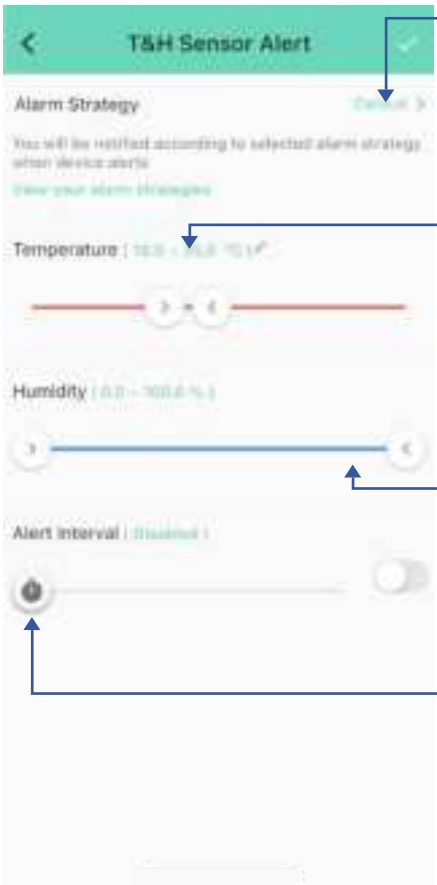
Device Serial Number

Signal Intensity
(From YoLink Hub)

Battery
Battery level indicator. If red, batteries are low; replace batteries soon.

Firmware Revision
(Refer to page 38)

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

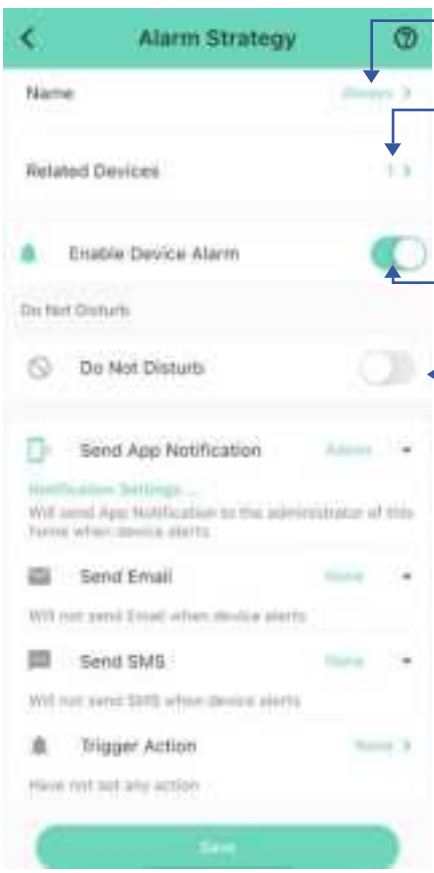
Tap the slider control and adjust the high or low alert value. The "normal" range will be displayed in green text as a low alert value, to the high alert value.

Alert interval
Choose how often you want to be reminded after an alert.
The default is every 5 minutes.

App Functions: Chart Screen

N 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.



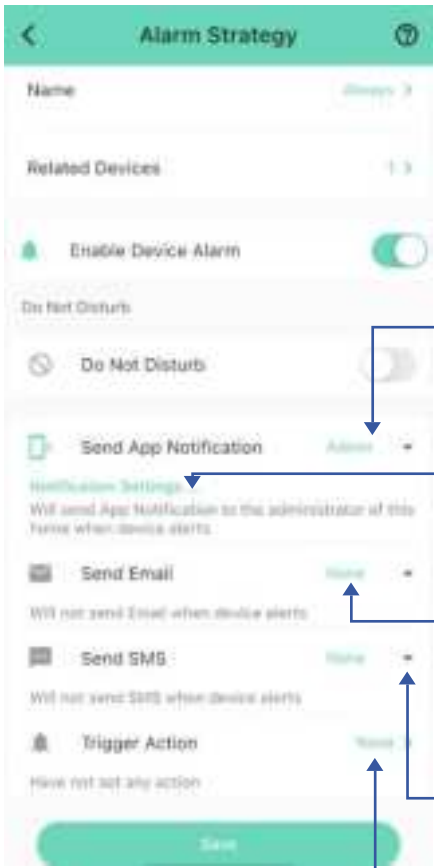
Strategy Name
Tap to edit the name

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, Continued



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

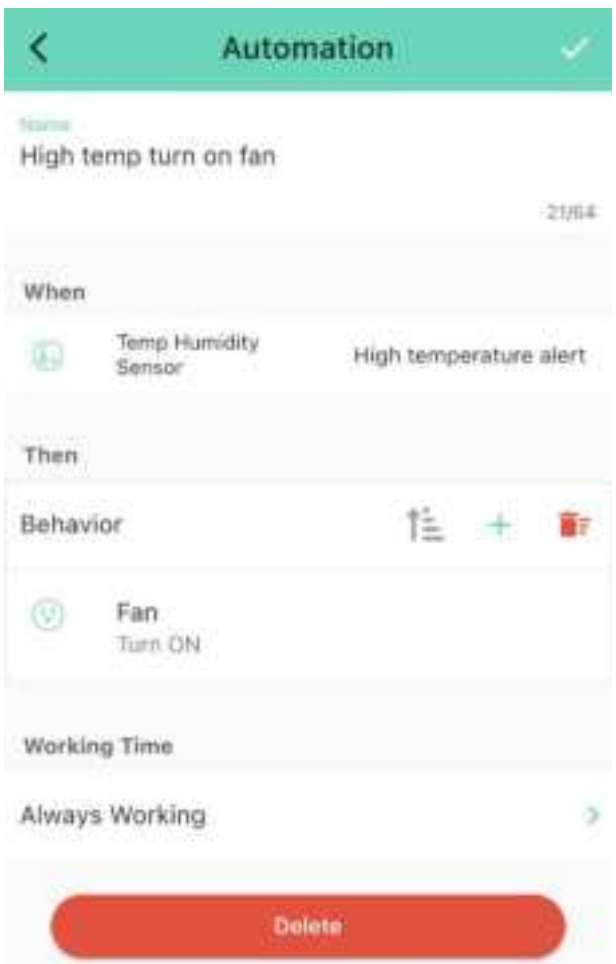
Send Email
Tap to select Admin to enable email notification, select All, if desired to send to all members

Send SMS
Tap to select Admin to enable limited text messages, select All, if desired to send to all members

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

App Functions: Automation

The X3 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 X3 Outdoor 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:

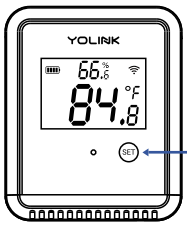
1. Open the sensor's **Details** screen and tap Calibration.

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 1.8°F (1°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 -4°F(-20°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 -4°F(-20°C), at least 9°F (5°C) change over a period longer than 1 minute.

Q Sensor Refresh Frequency

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

d. At least 10% 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 X3 Outdoor 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 X3 Outdoor 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 X3 Outdoor 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

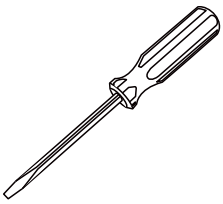
Google only supports querying the temperature or humidity of the devices.

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

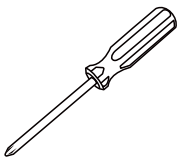
You can also try, “Alexa, what is the temperature of the Sunroom sensor?"

Battery Replacement

Tools Required :

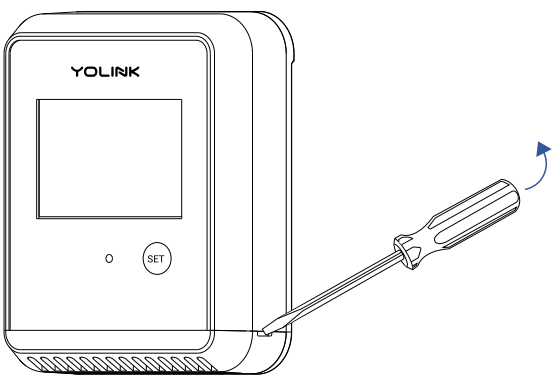


Small Flathead/
Slotted Screwdriver



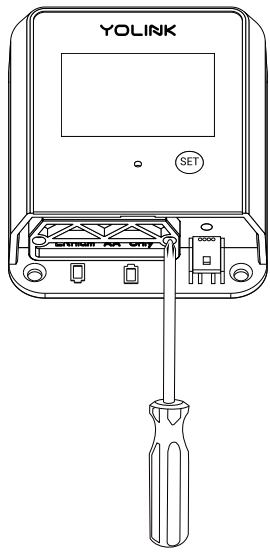
Small Phillips Screwdriver

1 As shown below, insert the tip of a slotted/flathead screwdriver into the notch on the side of the sensor. Gently twist the screwdriver, to release the battery access cover.

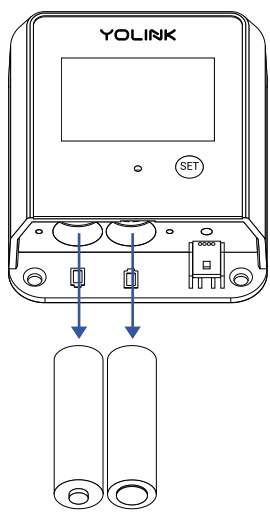


Battery Replacement, Continued

2 Using a small Phillips screwdriver, loosen both battery compartment cover screws until the cover can be removed (the screws do not need to be entirely removed).

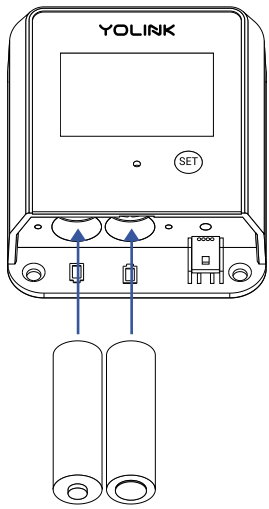


3 Remove the old batteries.

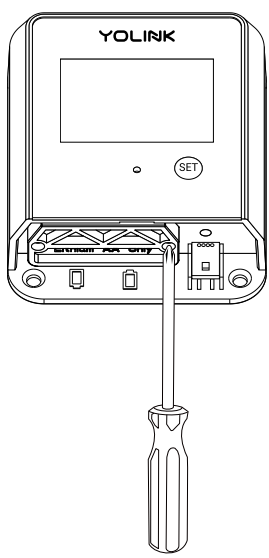


S Battery Replacement, Continued

4 Matching the battery orientation/polarity symbols, insert two new lithium AA batteries.

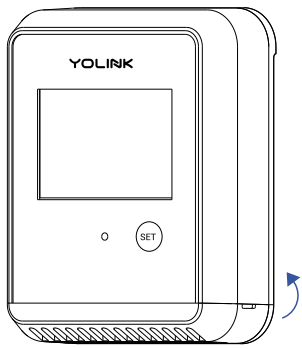


5 Replace the battery compartment cover and tighten the two screws.



Battery Replacement, Continued

6 Position and snap the battery access cover back into place.



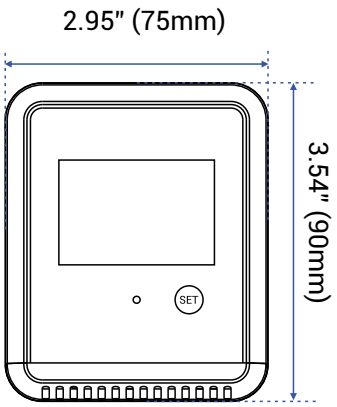
Specifications

Voltage:	3V DC (2-Lithium non-rechargeable AA batteries)
Device Current Draw:	≤ 150mA (operating) ≤ 55uA (standby)
Sensor Types:	Temperature, Humidity
Temperature Value Accuracy:	0.1 (°F/°C)
Humidity value Accuracy:	0.1%
Alert Temperature:	-22°F-140°F (-30°C- 60°C)
Alert Humidity :	0%-100%
Dimensions:	3.54 × 2.95 × 1.06 inches (90 × 75 × 27 millimeters, L×W×D)

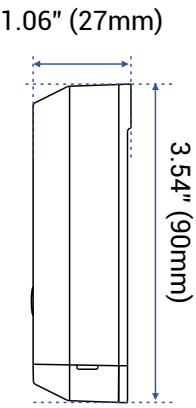
Specifications, Continued

Temperature Error (Typical):	-22°F- -4°F, ±0.9°F (-30°C- -20°C, ±0.5°C) -4°F-32°F, ±0.72°F (-20°C-0°C, ±0.4°C) 32°F-140°F, ±0.36°F (0°C-60°C, ±0.2°C)
Humidity Error (Typical,@77°F/25°C):	10%-90%, ±2% 0%-10%/90%-100%, ±3%
Environment:	Working Temperature: -22°F -140°F (-30°C-60°C) Working Humidity: ≤ 95% (non-condensing)

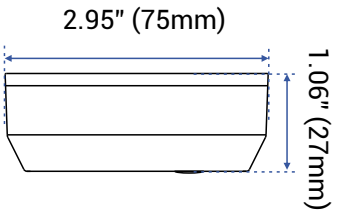
Specifications, Continued



FRONT



SIDE

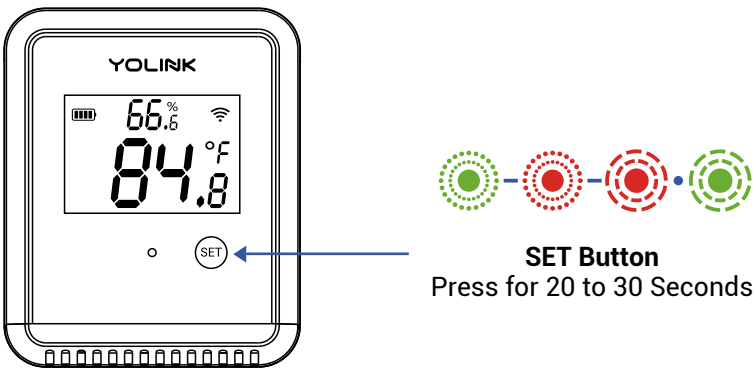


TOP

Factory Reset

When directed by customer support, and/or as an attempt to resolve a problem with your X3 Outdoor 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.

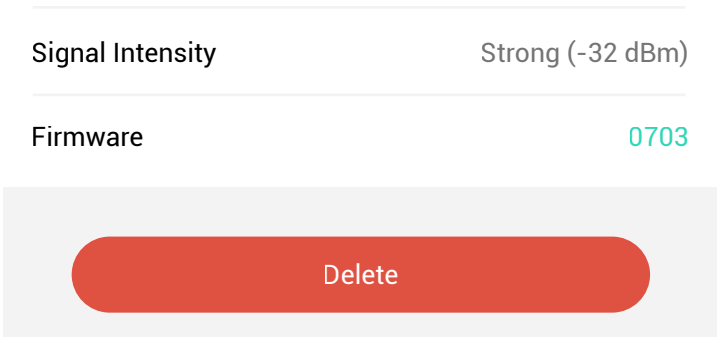
🤔

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.

Problem:
Sensor is offline or display is off.

Possible Solution:.
The sensor's Auto Screen-Off settings are turning off the display. Tap on Auto Display-Off in the device details screen, to modify this setting.

Troubleshooting, Continued

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

Possible Solution:
Your X3 Outdoor 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 24.

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 38.

Warnings

For optimal performance and lifetime of your X3 Outdoor Temperature & Humidity Sensor, please adhere to the following warnings:

- When replacing the batteries, only use new alkaline or lithium non-rechargeable batteries.
- Do not use zinc blend batteries.
- Do not mix old and new batteries.
- Adhere to the battery manufacturer's safety and disposal or recycling instructions.
- Please contact Customer Support before attempting to repair, disassemble, or modify your sensor, any of which can permanently damage your sensor and void the warranty.

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:
X3 OUTDOOR TEMPERATURE & HUMIDITY SENSOR

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS8015-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