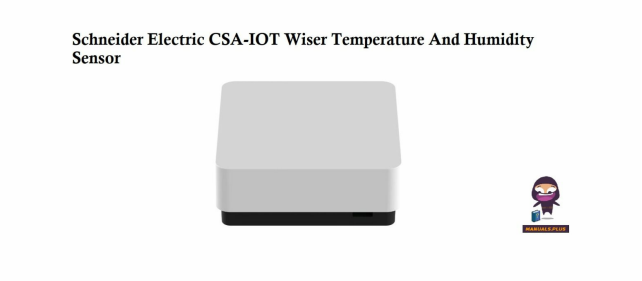
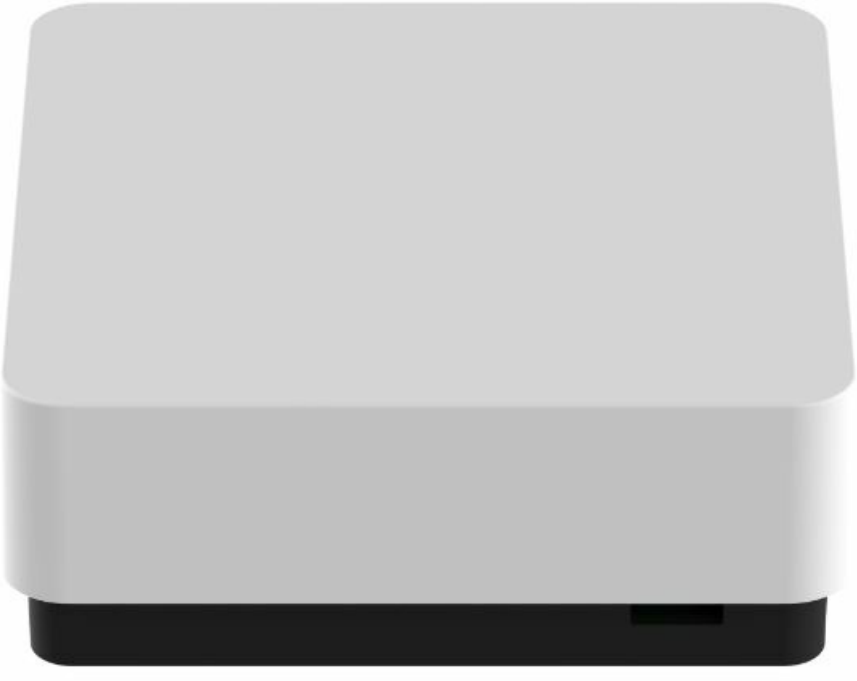


Schneider Electric CSA-IOT Wiser Temperature And Humidity Sensor User Guide

Contents

Schneider Electric CSA-IOT Wiser Temperature And Humidity Sensor



Product Information

Specifications:

- Product Name: Wiser Temperature and Humidity Sensor
- Manufacturing Date: 05/2023
- Brand: Schneider Electric
- Website: www.pdl.co.nz

About the Device:

The Wiser Temperature and Humidity Sensor is a device designed to measure and monitor temperature and humidity levels in various environments. It provides accurate readings and enables users to maintain optimal conditions for comfort and safety.

Installing the Device:

Before installing the Wiser Temperature and Humidity Sensor, please ensure that you have read and understood the safety information provided in this manual.

1. Select a suitable location for the sensor. It should be placed in an area that represents the average temperature and humidity of the room.
2. Ensure that the sensor is not exposed to direct sunlight or placed near any heat sources, as it may affect the accuracy of the readings.
3. Use the provided mounting bracket to secure the sensor to a wall or other surface. Make sure it is firmly attached.
4. Ensure that the sensor is within range of your Wiser system or compatible device for proper communication.

Pairing the Device:

To pair the Wiser Temperature and Humidity Sensor with your Wiser system or compatible device, please follow these steps:

1. Ensure that your Wiser system or compatible device is turned on and in pairing mode.
2. On the sensor, press and hold the pairing button for 5 seconds until the LED indicator starts flashing.
3. Within the Wiser system or compatible device, navigate to the pairing section and search for available devices.
4. Select the Wiser Temperature and Humidity Sensor from the list of available devices.
5. Follow the on-screen instructions to complete the pairing process.
6. Once paired successfully, the sensor will start transmitting temperature and humidity data to your Wiser system or compatible device.

Compliance:

The Wiser Temperature and Humidity Sensor comply with industry standards and regulations to ensure safe and reliable operation. For more information on compliance, please refer to the compliance information provided in this manual.

Trademarks:

The Schneider Electric brand and any trademarks mentioned in this guide belong to Schneider Electric SE or its subsidiaries. All other trademarks are the property of their respective owners.

FAQ

Q: Can I use the Wiser Temperature and Humidity Sensor outdoors?

A: No, the sensor is designed for indoor use only. It should not be exposed to outdoor elements.

Q: How often should I replace the batteries in the sensor?

A: The battery life of the sensor may vary depending on usage and environmental conditions. It is recommended to replace the batteries every 6-12 months or when the low battery indicator is displayed.

Q: Can I connect multiple sensors to my Wiser system?

A: Yes, you can connect multiple Wiser Temperature and Humidity Sensors to your Wiser system. Each sensor will provide individual temperature and humidity readings.

Q: Can I access the temperature and humidity data remotely?

A: Yes, if your Wiser system or compatible device supports remote access, you can view the temperature and humidity data remotely using the corresponding mobile app or web interface.

Q: How accurate are the temperature and humidity readings?

A: The sensor provides accurate temperature and humidity readings within a specified range. Please refer to the product specifications for detailed accuracy information.

Legal Information

Safety information

Important information

- Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.
- The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.
- This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Wiser Temperature/Humidity Sensor

About the device

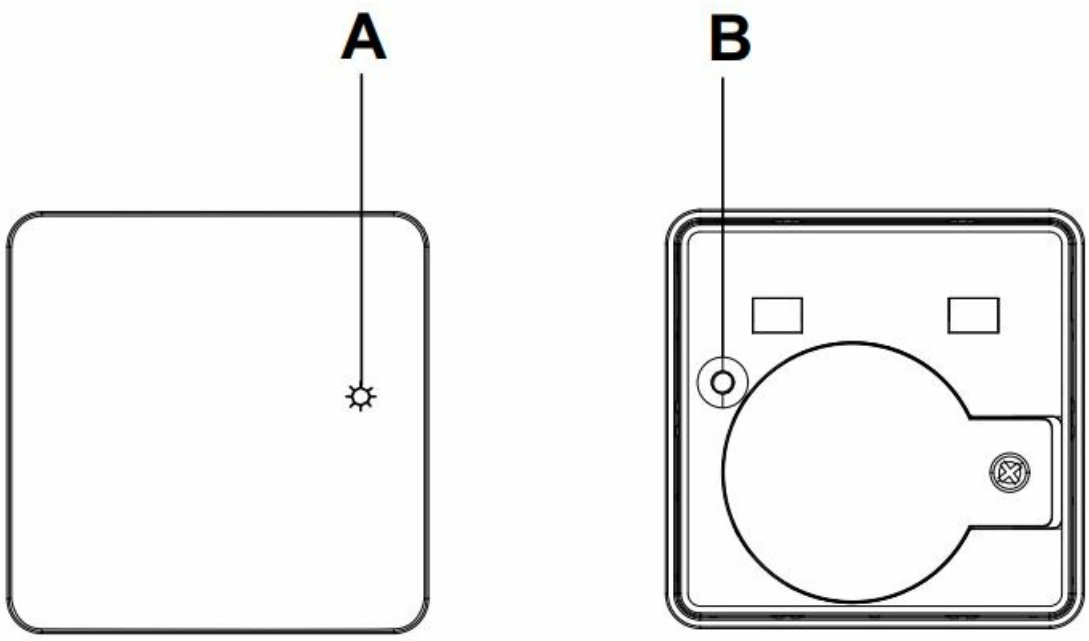
The Wiser Temperature/Humidity sensor (hereinafter referred to as sensor) combines two sensors in one unit. The sensor measures temperature and humidity in the environment where the sensor is installed. When the sensor is connected to the Wiser Hub, it reports the temperature and humidity data to the Wiser Hub.
The sensor triggers other Wiser devices (such as turning on an air conditioner if the temperature is high or turning on an exhaust fan if the humidity is high) through automation.

Features of the sensor:

- Detect temperature and humidity in the environment and passes the information to the Wiser Hub.
- Sends the battery level and offline device status information to the Wiser Hub.

Operating elements

- A. Status LED
- B. Function key



Installing the device

Refer to the installation instruction supplied with this product. See Wiser Temperature Humidity Sensor.

NOTICE

EQUIPMENT DAMAGE

Do not install the sensor in a place where there is strong sunlight or wind (for example, close to the ventilation). Failure to follow these instructions can result in equipment damage.

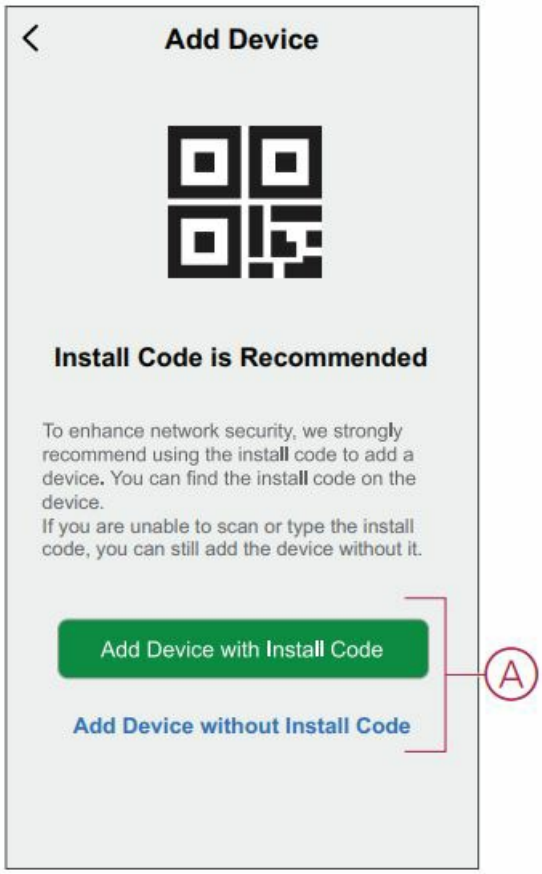
Pairing the device

Using the Wiser app, pair your device with the Wiser Hub to access and control the device. You can either add the device manually or do an auto-scan to pair it.

Pairing device manually

To pair the device manually:

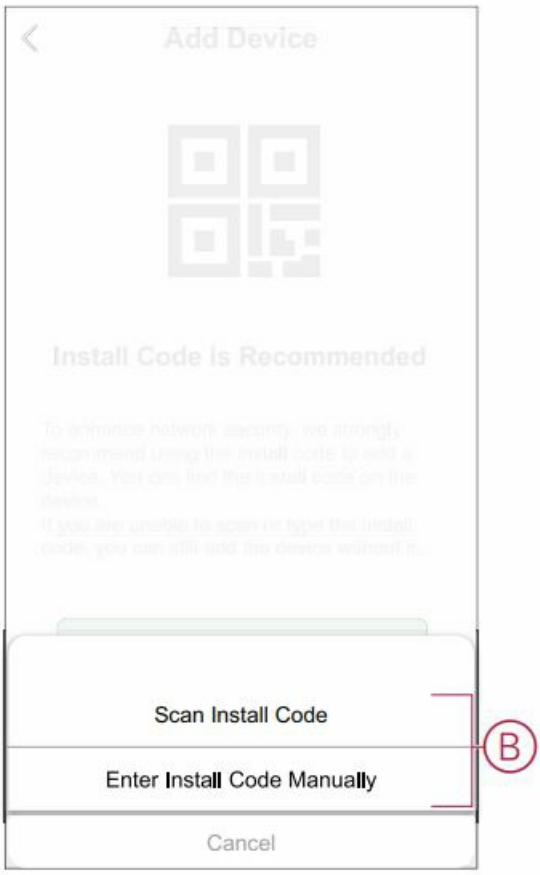
1. On Home page, tap +.
2. Tap  , select the required Wiser Hub on the slide-up menu.
3. Select an option to add the device (A):
    - Add Device with Install Code
    - Add Device without Install Code



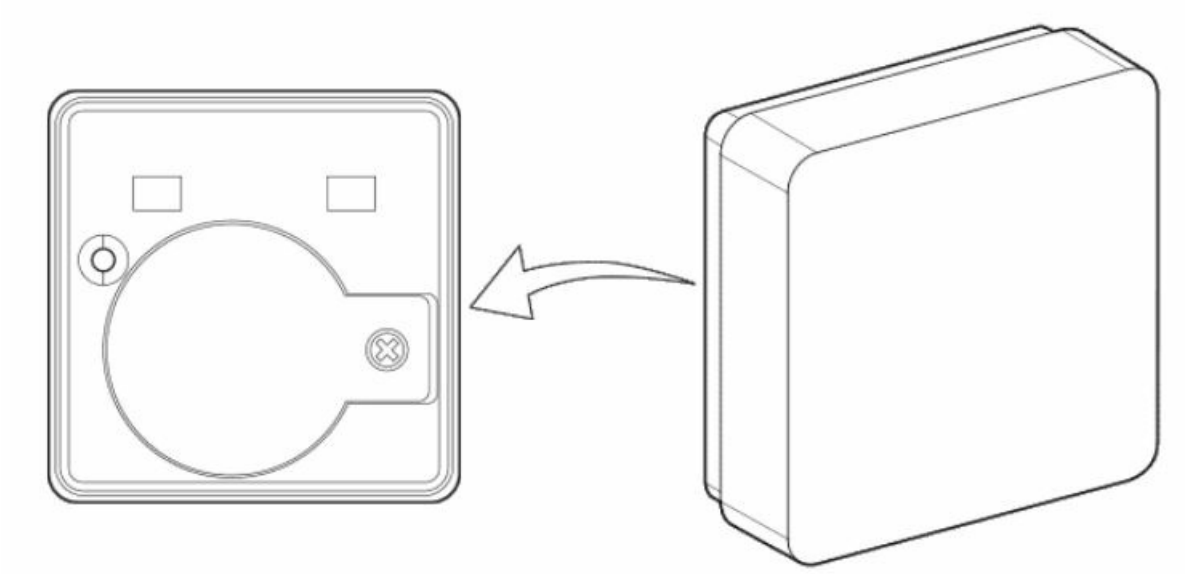
TIP: It is highly recommended to add the device with install code.

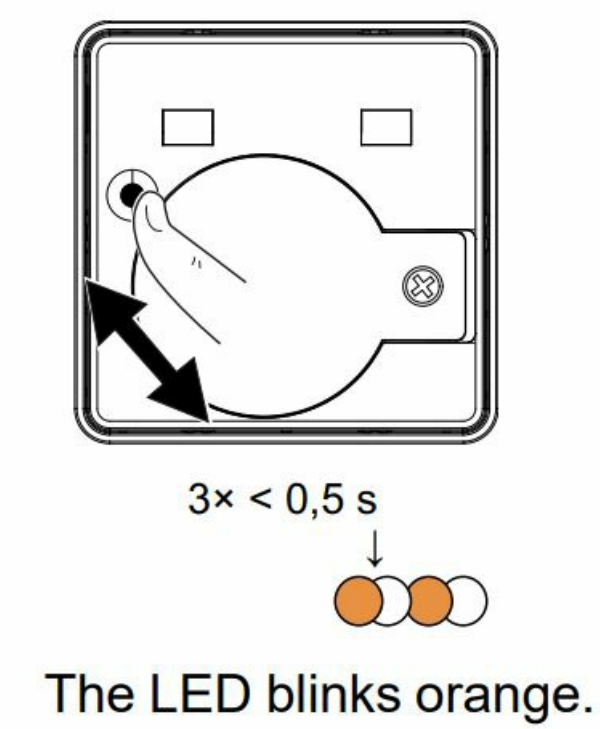
4. To pair the device with an install code, tap Add Device with Install Code to display the slide-up menu. Select any one of the options (B):
    - Scan Install Code – you can scan the device for the install code.
    - Enter Install Code Manually – you can manually enter the install code from the device.

    After adding the device with install Code, proceed to Step 6.

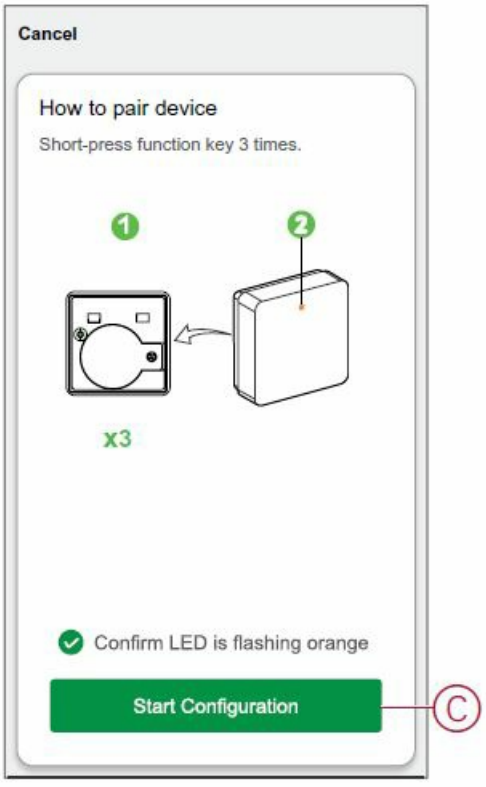


5. To pair the device without install code, tap Add Device without Install Code.
6. On the rear side of the sensor, short press the function key 3 times (< 0,5 s).



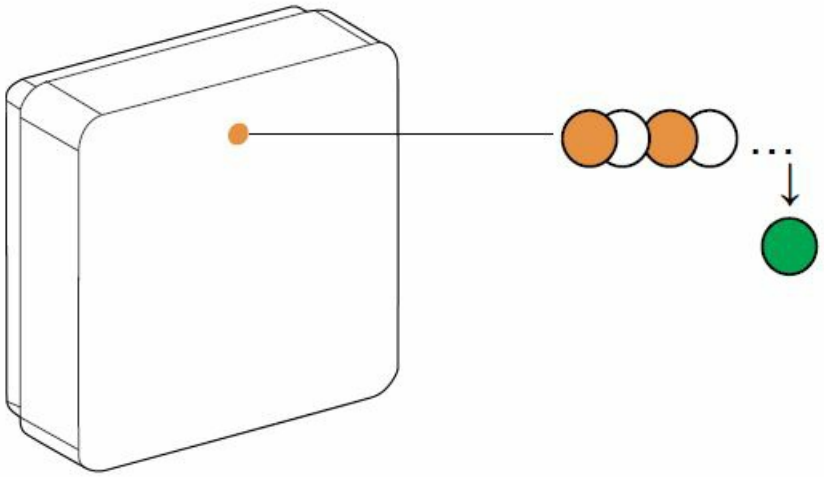


7. In the app, select Confirm LED is flashing orange and tap Start configuration (C).



The app displays the progress of connecting the device.

8. After a few seconds, a solid green LED indicates that the sensor is successfully paired to the Hub.

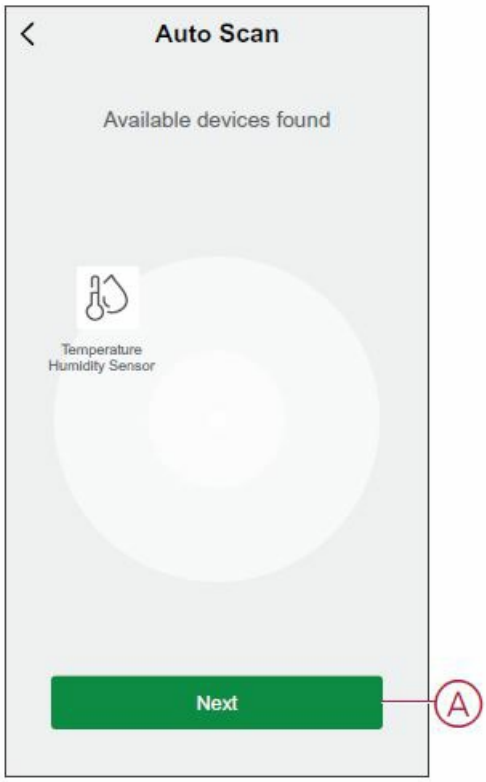


9. Tap Done when the pairing is successful.

Pairing device with auto scan

Pairing the device with auto scan automatically discovers the device when the corresponding device is powered on.

1. On the Home page, tap +.
2. Tap Auto scan > Confirm.
3. Enable permissions to Access location and Wi-Fi for scanning device and tap Start scanning.
   NOTE: If you have multiple hubs, do Step 4 or proceed to Step 5.
4. Tap Select hub and select the Wiser hub from the slide-up menu.
5. Short press the setup/reset button 3 times (< 0,5 s) and wait for a few seconds until the device search is complete.
   The LED blinks orange.
   TIP: If you want to pair multiple devices at once, perform step 5 on each device and wait for a few seconds for them to be detected.
6. Tap Next (A) and select Temperature Humidity Sensor.



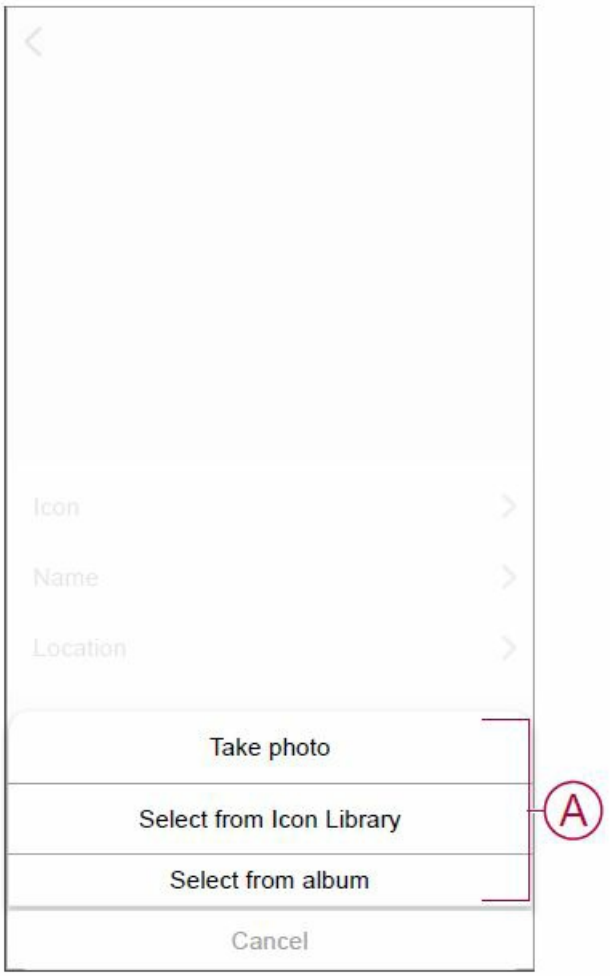
7. Once the device is added successfully, tap Done.

Configuring the device

Changing the device icon

You can change the device icon using the Wiser app.

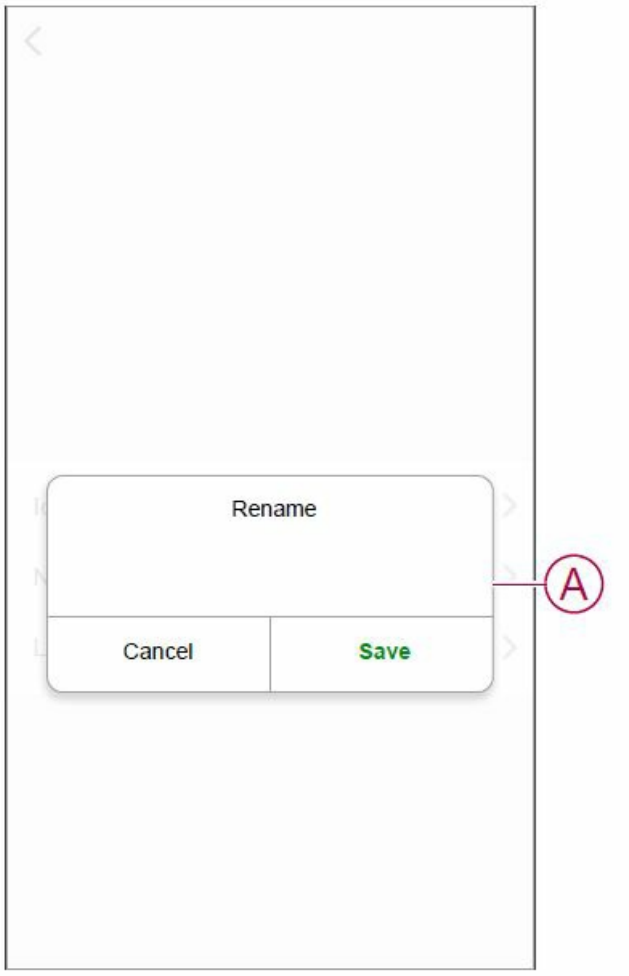
1. On the Home page, select the device for which you wish to change the icon.
2. At the top-right corner of the screen, tap  .
3. Tap edit  next to the device name.
4. Tap Icon to view the menu.
5. In the slide-up menu, select any one of the following (A) to change the device icon:
    - Take photo – allows you to take a photo with your device camera.
    - Select from Icon Library – allows you to select an icon from the app library.
    - Select from Album – allows you to select a photo from the mobile gallery.



Renaming the device

You can rename the device using the Wiser app.

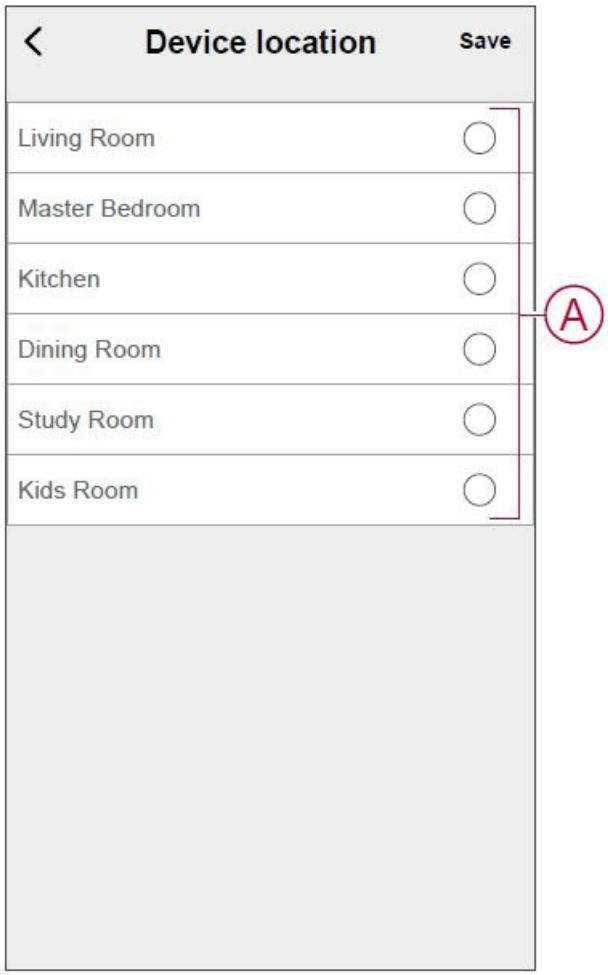
1. On the Home page, select the device for which you wish to rename.
2. At the top-right corner of the screen, tap '  '.
3. Tap edit  next to the device name.
4. Tap Name, enter the new name (A) and then tap Save.



Changing the device location

You can change the device location using the Wiser app.

1. On the Home page, select the device for which you wish to change the location.
2. At the top-right corner of the screen, tap .
3. Tap edit next to the device name.
4. Tap Location.
5. Select the desired location from the list (A) and then tap Save.

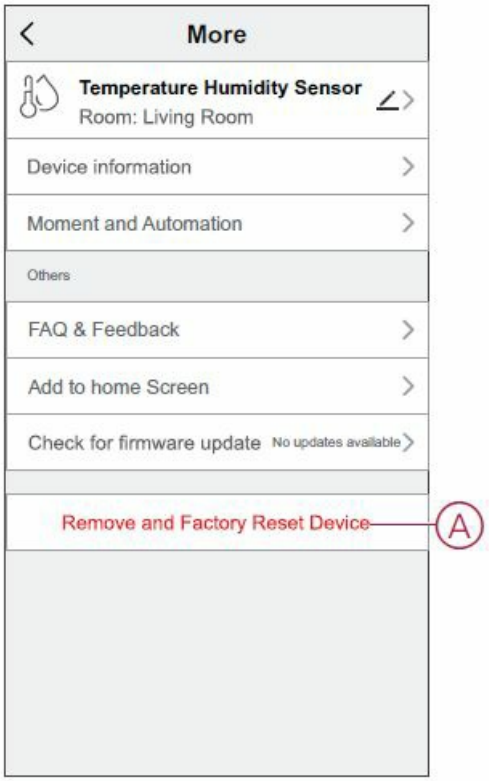


Removing the device

You can remove a device from the device list using the Wiser app,

To remove the device:

1. On the Home page, tap All devices > Temperature Humidity Sensor.
2. Tap  to display more details.
3. Tap Remove and Factory Reset Device (A) and tap Confirm.

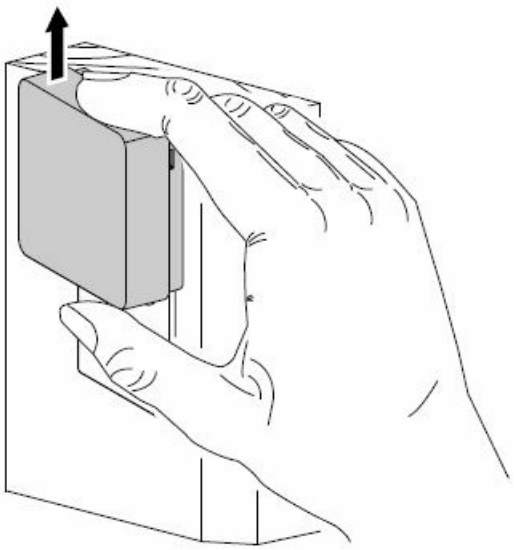


TIP: On the home page, you can tap and hold the Temperature/ Humidity Sensor to remove the device.
NOTE: By removing the device, you will reset the device. If you still have a problem with the reset, then refer to resetting the device

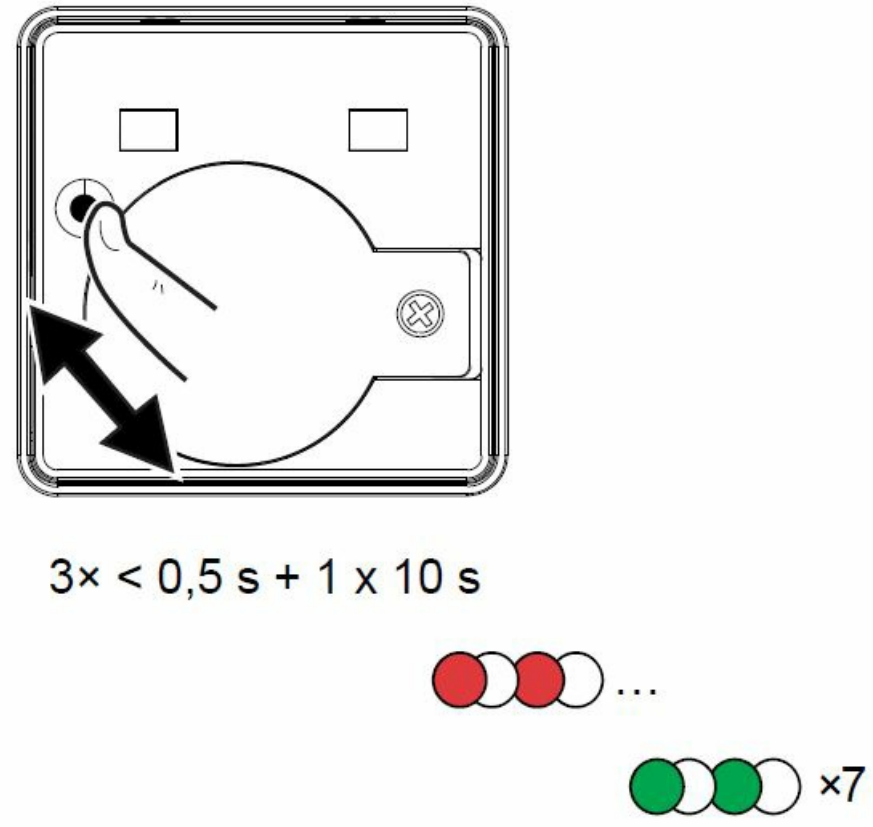
Resetting the device

You can reset the sensor to factory default manually.
To reset the sensor:

1. Remove the sensor from the base plate by sliding it upwards



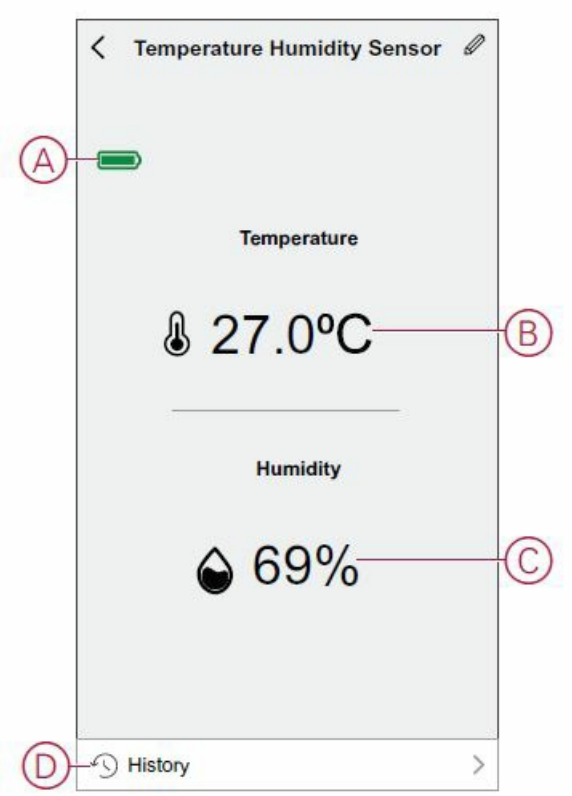
2. Short-press the function key 3 times (<0.5 s) and then long-press the function key once (>10 s), the LED blinks red after 10 s, and then release the function key. Upon successful reset of the sensor, the LED stops blinking. Then, the sensor restarts and blinks green for a few seconds.
   NOTE: After reset, the LED turns off to save the battery



Using the device

On the Home page, tap All devices > Temperature Humidity Sensor to access the control panel.
On the Sensor control panel page, you can see the following:

- Battery level (A)
- The current temperature value (B)
- The current humidity value (C)
- History (D)

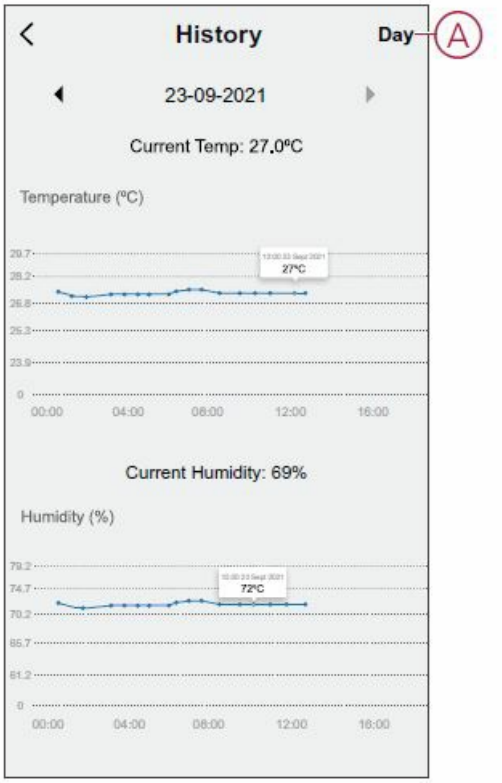


Checking the device history

You can monitor the temperature and humidity changes by accessing the device history in the Wiser app.

To see the device history:

1. On the Home page, tap All devices > Temperature Humidity Sensor.
2. On the device control panel page, tap History.
3. In the History page, you can see the temperature and humidity changes in the graph.
4. Tap Day (A) to adjust the day, week, month, or year view.



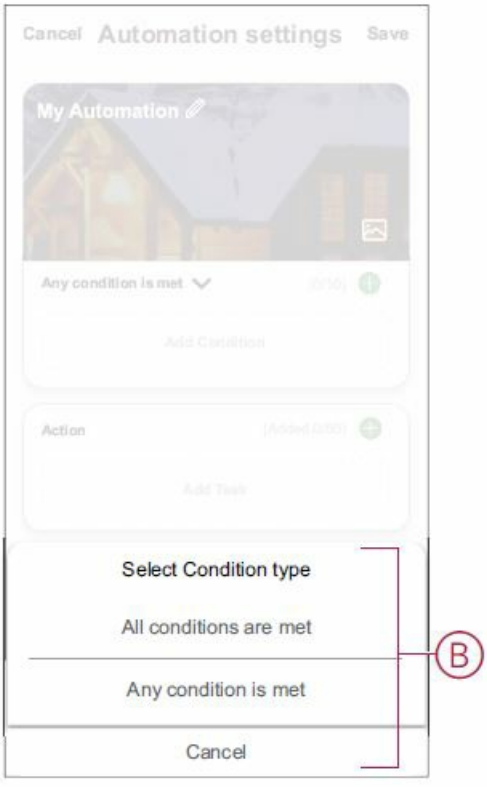
Creating an automation

Automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. By using the Wiser app, you can create automations based on your needs.

1. On the Home page, tap the  .
2. Go to Automation > + to create an automation.
3. Tap Edit name  , enter the name of the automation (A) and tap Save.

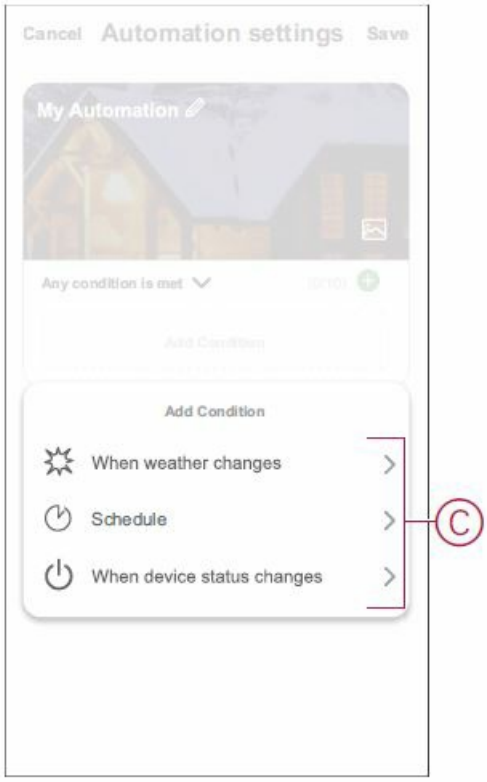
   TIP: You can choose the cover image that represents your automation by tapping  .

4. Tap Any condition is met to select any one of the condition type (B):
    - All conditions are met- The automation is triggered when all the conditions are met.
    - Any condition is met- The automation is triggered when at least one condition is met.

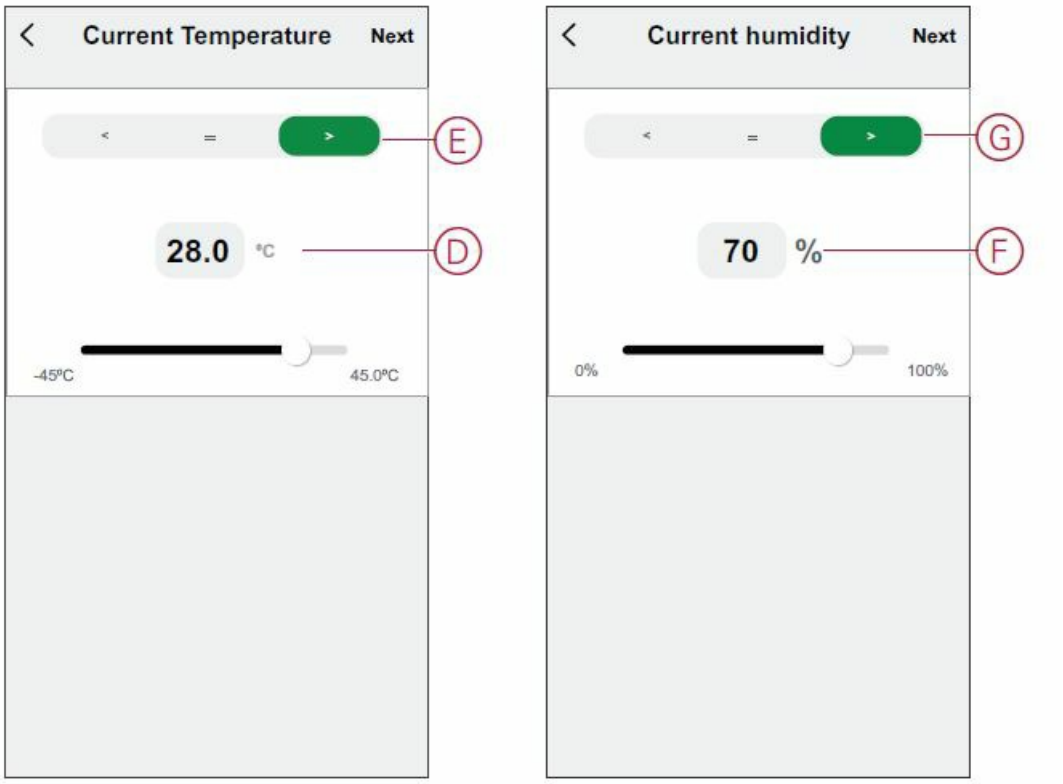


5. Tap Add Condition to display the slide-up menu.
6. In the Add Condition menu, you can do either or all of the following options (C):
    - When weather changes- Select the various weather settings
    - Schedule- Set the time and day
    - When device status changes – Select the device and it's function

    NOTE: You can add one or more conditions using 



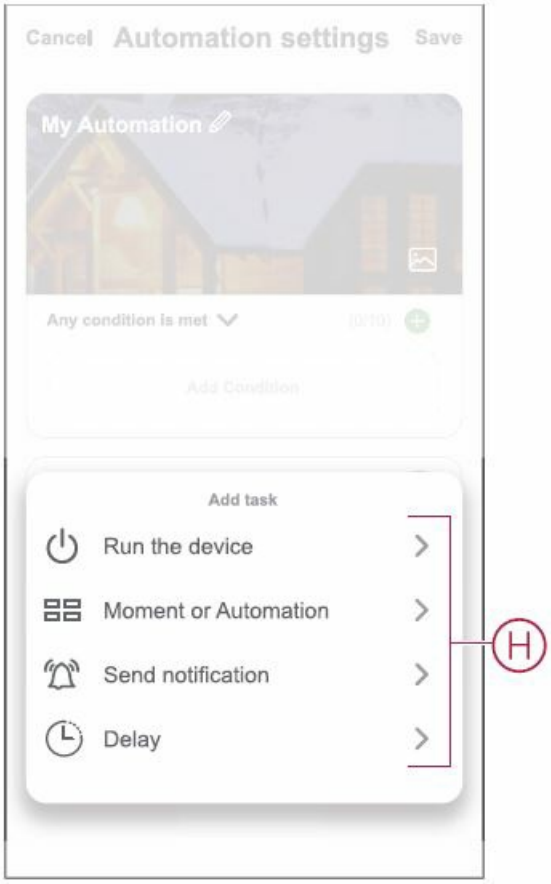
7. Tap When device status changes > Temperature Humidity Sensor to select either or all of the functions to add in the automation:
    - Current temperature – Set the temperature (D) and select the condition (E)
    - Current humidity – Set the humidity (F) and select the condition (G)



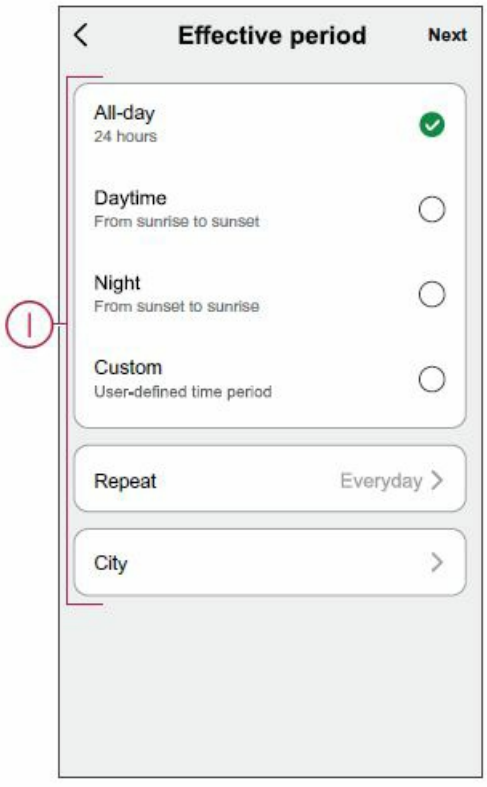
8. Tap Add task to display the slide-up menu.
9. In the Add task menu, you can do either or all of the following options (H):
    - Run the device – Select the devices that you want to trigger.
    - Moment or Automation – Select the moment which you want to trigger or select the automation that you want to enable or disable.
    - Send notification – Turn on notification for the automation.

- Delay – Set the delay time.

NOTE: You can add one or more actions using.



10. Tap on Effective period to set the time range for the automation. You can select any one of the following (I):
    - All-day – 24 hours
    - Daytime – From sunrise to sunset
    - Night – From sunset to sunrise
    - Custom – User-defined time period



11. Once all the actions and conditions are set, tap Save.

Example of an automation

This demonstration shows you how to create an automation to open the shutter when the room is warm.

1. Go to Automation > + to create an automation.
2. Tap Edit name, enter the name of the automation and tap Save.

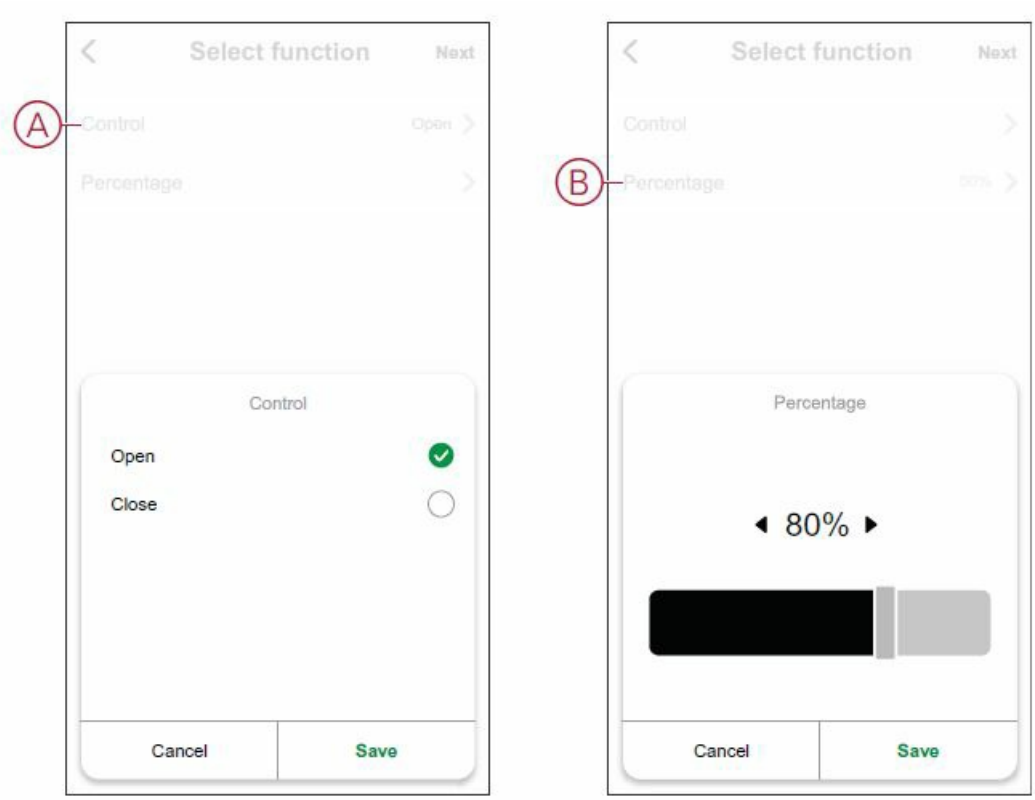
   TIP: You can choose the cover image that represents your automation by tapping .
3. Tap Add Condition > When device status changes > Temperature Humidity Sensor.
4. Tap Current temperature, set the temperature and condition and tap Next.

   TIP: You can set the temperature as 27 °C and the condition as > (greater than).

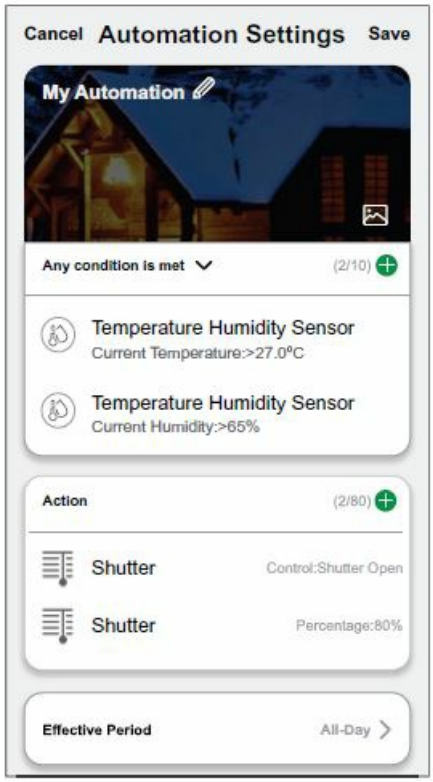
   NOTE: The automation is triggered only if the status of the Sensor changes to a higher temperature than the set temperature. In this case, the automation is triggered when the temperature changes from 27 °C to 28 °C.
5. Tap to add another condition and tap When device status changes > Temperature Humidity Sensor.
6. Tap Current humidity, set the humidity and condition and tap Next.

   TIP: You can set the humidity as 65% and the condition as > (greater than).

   NOTE: The automation is triggered only if the status of the Sensor changes to a higher humidity than the set humidity. In this case, the automation is triggered when the humidity changes from 65% to 66%.
7. Tap Add task > Run the device > Shutter.
8. Tap Control (A), select Shutter Open and tap Save.
9. Tap Percentage (B), set the shutter open percentage and tap Save.
10. Tap Next



11. In the Automation Settings page, tap Save.



Once the automation is saved, it is visible on the Automation tab. You can tap the toggle switch on the automation to enable it.

Editing an automation

1. On the Automation tab, locate the automation you want to edit and tap ●●●.
2. On the Edit page, you can tap each item (such as dimmer, shutter, delay, temperature, etc.) to change the settings.

TIP:

- You can add one or more condition or actions using ⊕.
- To delete an existing condition or action, slide each item towards left and tap Delete.

Deleting an automation

1. On the Automation tab, locate the automation that you want to delete and then tap ●●●.
2. Tap Delete and then tap Ok.
   NOTE: After deleting an automation, the device action can no longer be triggered.

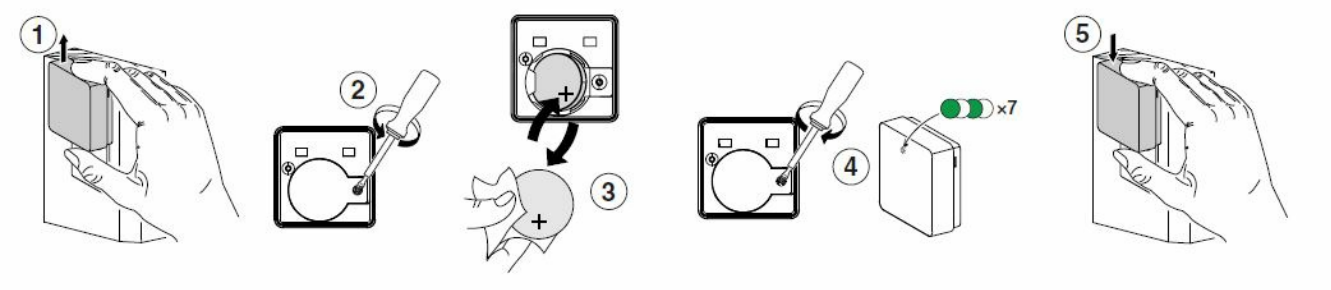
Replacing the battery

To replace the batteries:

1. Remove the sensor from the base plate by sliding it upwards.

2. Unscrew the battery cover using a screwdriver.
3. Replace the battery with the proper polarity.
4. Re-install the battery cover and tighten the screw using a screwdriver. The LED blinks green seven times and then stops blinking.
5. Install the sensor on the base plate by sliding it down.

NOTE: Dispose of used batteries, as per statutory regulations



LED indications

Initial Stage

Action	LED Indication	Status
Green LED blinks 7 times (1 Hz)	→ **(7x)** →	After the sensor is powered On for the first time or after the batteries were replaced.

If not paired yet

Action	LED Indication	Status
Amber LED blinks (1 Hz)	→ **(2 min)** → → **(3 sec)** →	Indicates the pairing mode after function key is pressed 3 times within 1 second. If pairing is not successful, the amber LED is On for 3 seconds and then turns Off.
Green LED is On for 3 seconds	→ **(3 sec)** →	Pairing was successful.

If already paired

Action	LED Indication	Status
Green LED blinks 5 times (1 Hz)	→ **(5x)** →	The sensor is paired and connected.
An amber LED blinks for three seconds (4 Hz)	→ **(3 sec)** →	The sensor is paired, but disconnected.

Reset – After pressing the function key 3 times within 0.5 seconds and then hold for 10 seconds

Action	LED Indication
The red LED blinks for 10 seconds, remains on for 3 seconds, and then turns off. The sensor then restarts and blinks green for a few seconds.	→ **(10 sec)** → → **(3 sec)** → →

Battery level

LED Indication	**Status**
LED blinks amber once per minute.	The battery is low (< 10%), replace the battery, page 19. **NOTE:** A notification pop-up will appear on the app.

Troubleshooting

Symptom	Possible cause	Solution
The sensor triggers the automation/ schedule but does not show the sta tus on the app.	The sensor may be undergoing an over-the-air (OTA) firmware update.	Wait for the firmware update to com plete and then check that the senso r is reporting status. **NOTE:** The firmware update runs i n the background.
LED blinks amber.	The sensor battery is low or drained.	Replace the battery in the device, page 19 **NOTE:** A notification pop–up will a ppear on the app.

Technical Data

Battery	3 VDC, CR2450
Battery life	Up to 5 years (may vary based on the usage, frequency of f irmware update and environment)
Nominal power	≤90 mW
IP rating	IP20
Operating frequency	2405 – 2480 MHz
Max. radio-frequency power transmitted	≤7 dBm
Operating temperature	-10 °C to 50 °C
Temperature accuracy	±1.5 °C
Temperature resolution	0.1 °C
Relative humidity	10 % to 95 %
Humidity accuracy	±5 %
Dimensions (H x W x D)	45 x 45 x 17.2 mm
Communication protocol	Zigbee 3.0 certified
Compliance	

Compliance

Compliance information for Green Premium products

Find and download comprehensive information about Green Premium products, including RoHS compliance and REACH declarations as well as Product Environmental Profile (PEP) and End-of-Life instructions (EOLI).

- https://checkaproduct.se.com/

General information about Green Premium products

Click the link below to read about Schneider Electric's Green Premium product strategy.

- https://www.schneider-electric.com/en/work/support/green-premium/

Trademarks

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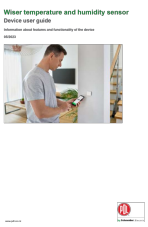
Customer Care: 13 73 28 www.pdl.co.nz DUG_Temperature and Humidity Sensor_PDL-00

Documents / Resources

	**Schneider Electric CSA-IOT Wiser Temperature And Humidity Sensor** [pdf] User Guide CSA-IOT Wiser Temperature And Humidity Sensor, CSA-IOT, Wiser Temperature And Humidity Sensor, Temperature And Humidity Sensor, Humidity Sensor, Sensor

References

- **Green Premium products \| Schneider Electric Global**
- **User Manual**