Schneider Electric Wiser Temperature Humidity Sensor User Guide

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Contents

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

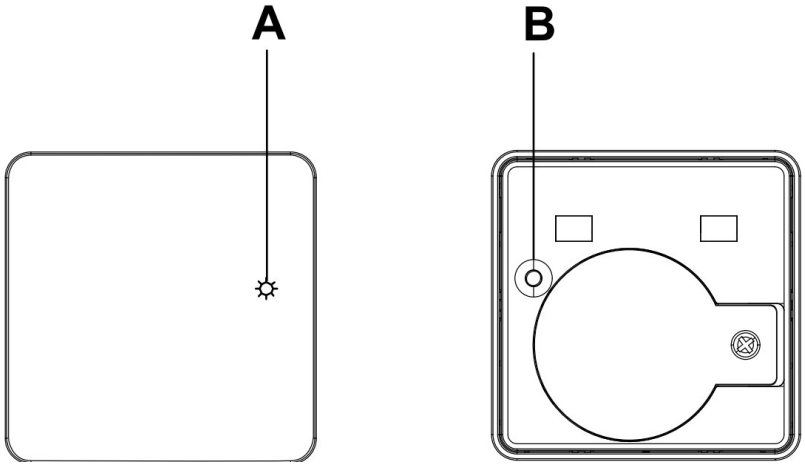
Wiser Temperature/Humidity Sensor

For your safety
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.

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 Gateway, it reports the temperature and humidity data to the Wiser Gateway. 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.

Operating elements

A. Status LED
B. Function key



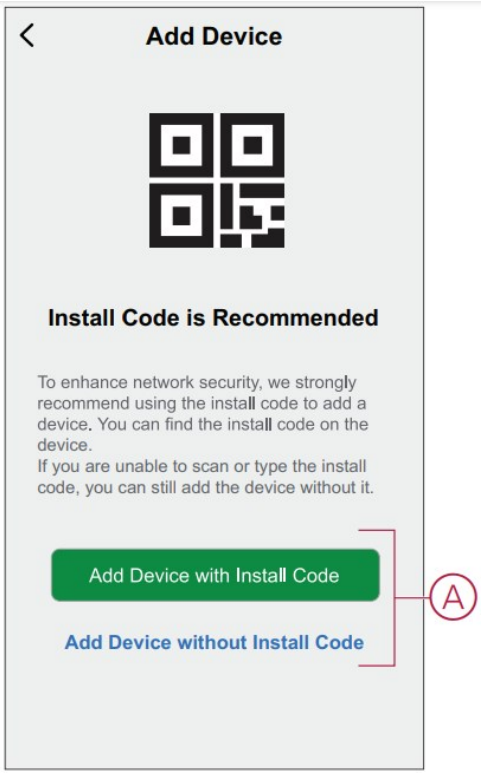
Installing the device
Refer to the installation instruction supplied with this product.

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

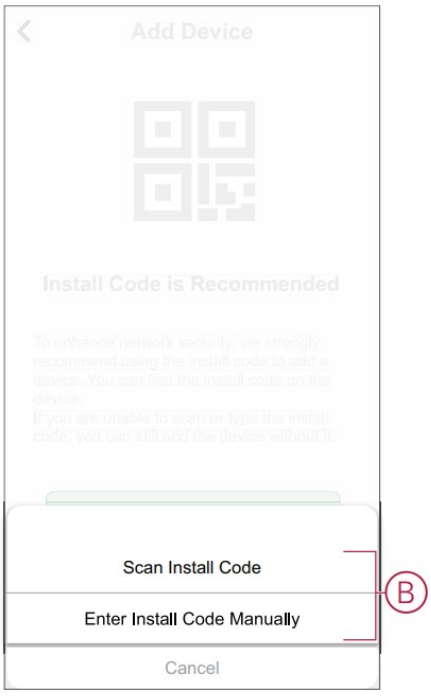
Pairing device manually
To pair the device manually:

1. On Home page, tap +.
2. Tap , select the required Wiser Hub on the slide-up menu.

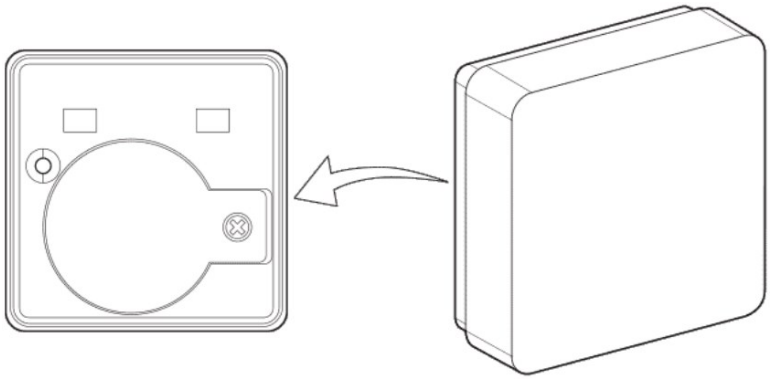
3. Select an option to add the device (A):
    - Add Device with Install Code
    - Add Device without Install Code Add Device Install Code is Recommended Add Device without Install Code device. If you are unable to scan or type the install code, you can still add the device without it.

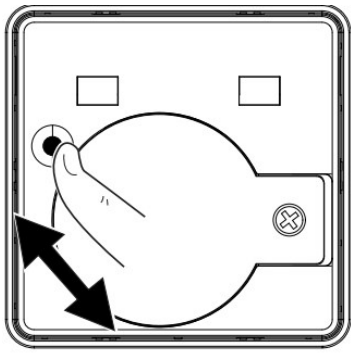


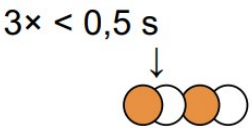
    TIP: It is highly recommended to add the device with install code.
4. To pair the device with an install code, tap Add Device with Install Code to display the slide-up menu. Select any one of the options (B):
    - Scan Install Code – you can scan the device for the install code.
    - Enter Install Code Manually – you can manually enter the install code from the device. After adding the device with install Code, proceed to Step 6.



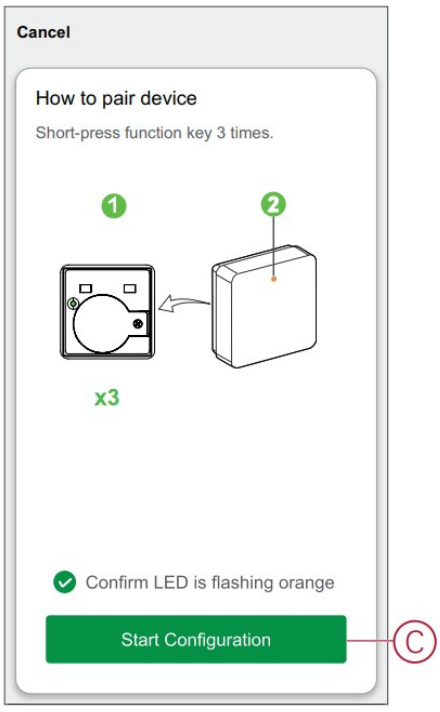
5. To pair the device without install code, tap Add Device without Install Code.
6. On the rear side of the sensor, short press the function key 3 times (< 0,5 s).



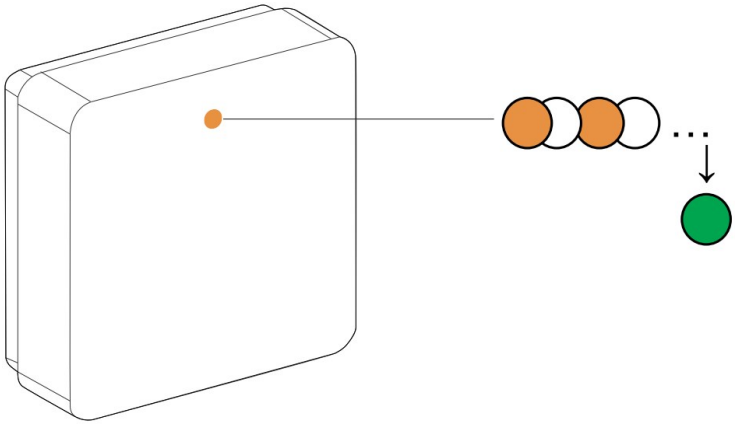




7. In the app, select Confirm LED is flashing orange and tap Start configuration (C).



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



9. Tap Done when the pairing is successful.

Pairing device with auto scan

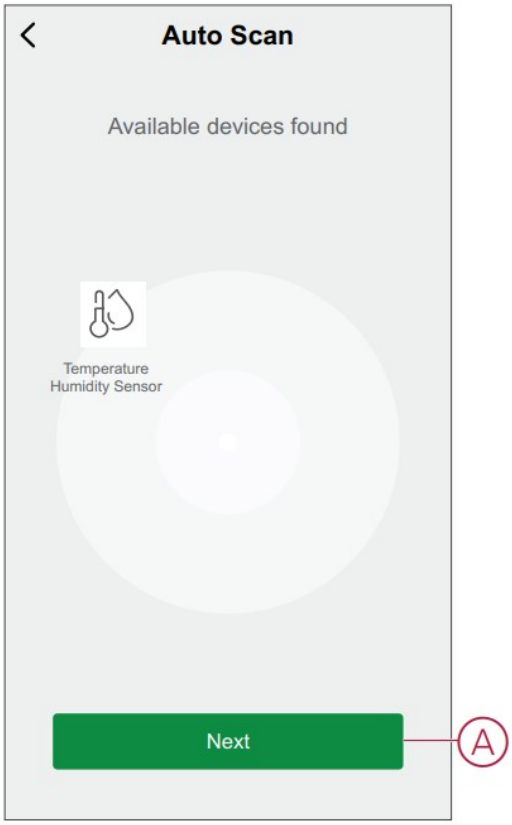
Pairing the device with auto scan automatically discovers the device when the corresponding device is powered on.
To pair the device:

1. On the Home page, tap +.
2. Tap Auto scan and than tap Confirm.
3. If you have multiple hubs, do Step 4 or proceed to Step 5.
4. ap Select hub and select the Wiser hub from the slide-up menu.
5. Short press the function key 3 times (< 0,5 s).

   NOTE:

   - The LED blinks orange.
   - Wait for a few seconds until the device search is complete.

     TIP: If you want to pair multiple devices, perform step 5 on each device and wait for a few seconds.
6. Select Temperature Humidity Sensor and tap Next (A)



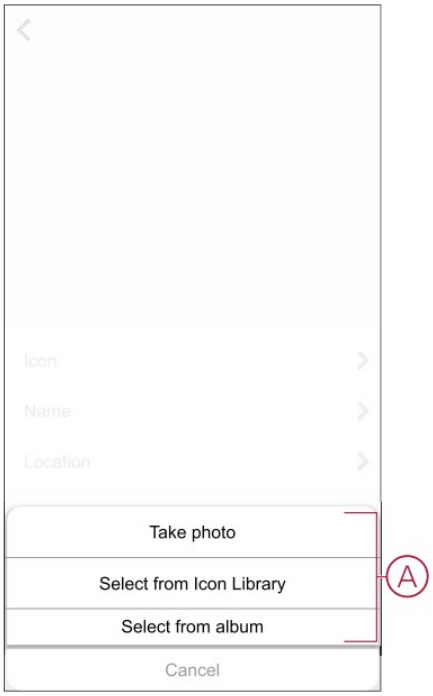
7. Tap Done when the pairing is successful.

Configuring the device

Changing the device icon

You can change the device icon using the Wiser app.

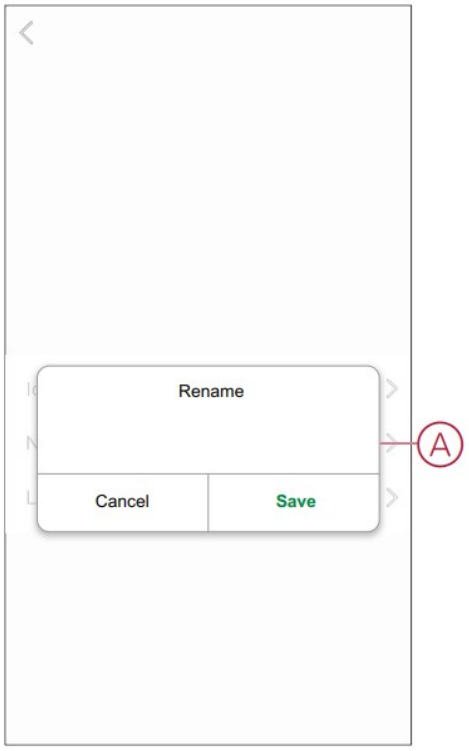
1. On the Home page, select and tap the device you wish to change the icon.
2. At the top right corner of the device screen, tap .
3. Tap edit next to the device name.
4. Tap Icon to view the menu
5. In the slide-up menu, select any one of the following (A) to change the device icon:
    - Take photo – allows you to click a photo from the mobile 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

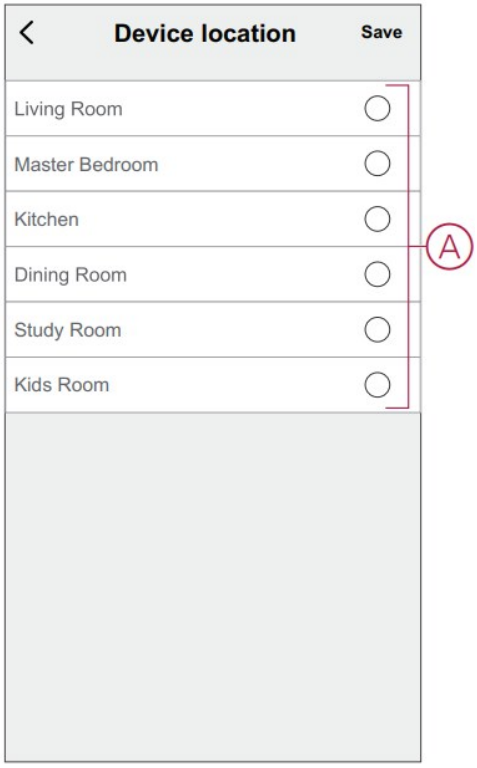
You can rename the device using the Wiser app.

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



Changing the device location
You can change the device location using the Wiser app.

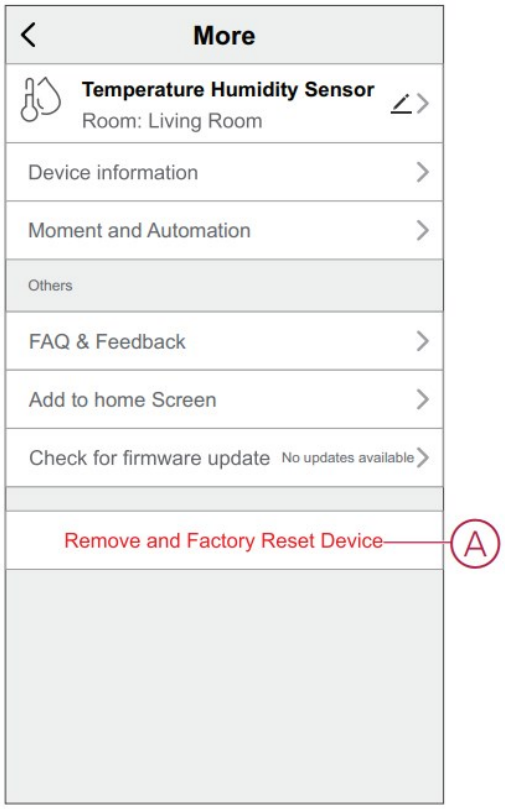
1. On the Home page, select and tap the device you wish to change the location.
2. At the top right corner of the device screen, tap .
3. Tap edit next to the device name.
4. Tap Location.
5. Select the desired location from the list (A) and than tap Save.



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.

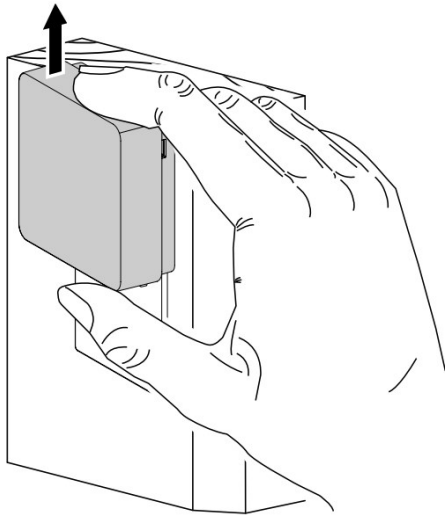


TIP: On the home page, you can tap and hold the Temperature/ Humidity Sensor to remove the device.

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.

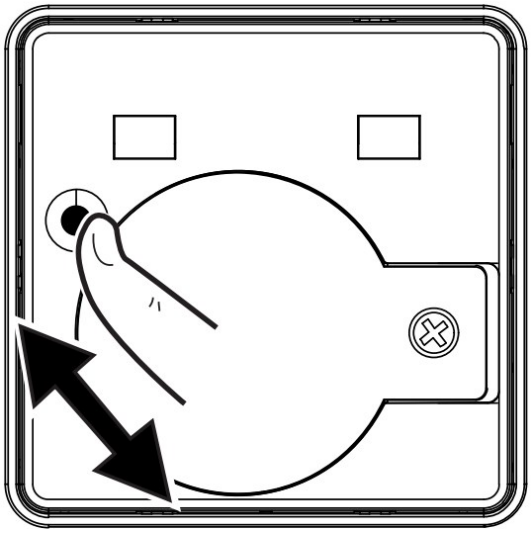
You can reset the sensor to factory default manually. To reset the sensor:

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.

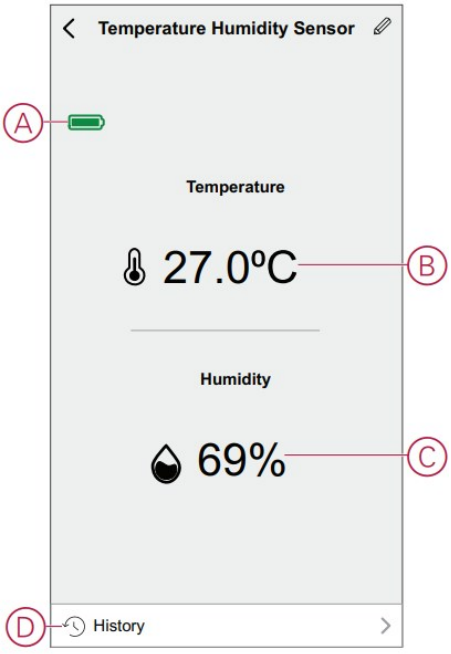
NOTE: After reset, the LED turns off to save the battery



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)

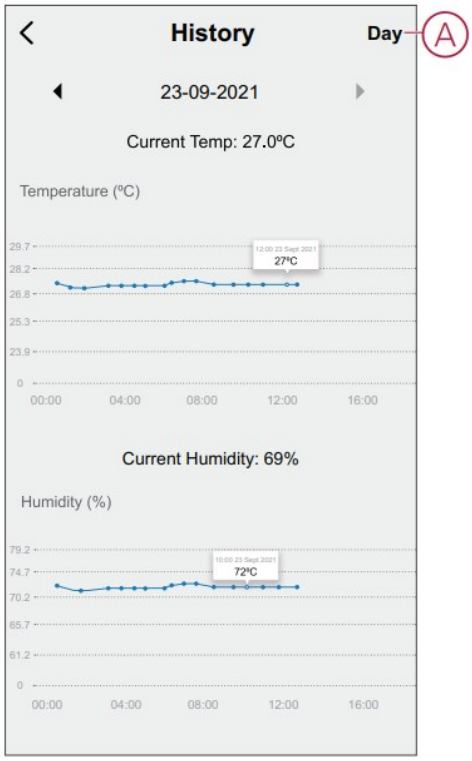


Checking the device history

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.

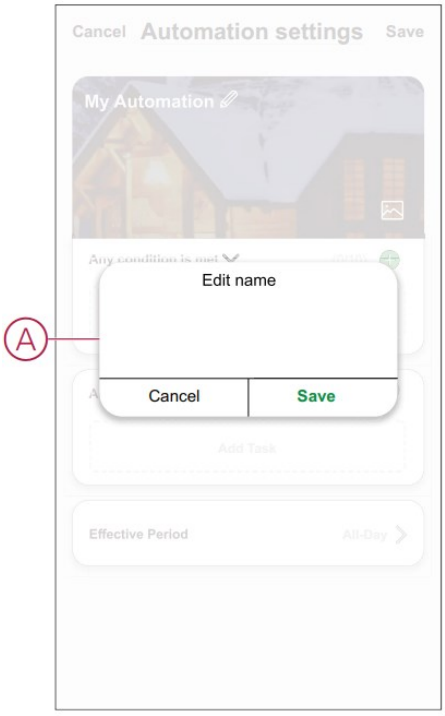


Creating an automation

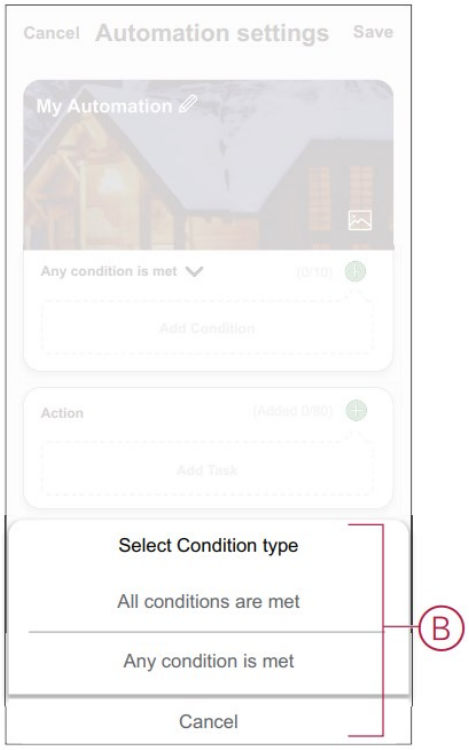
An automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. By using the Wiser app, you can create automations based on your needs. To create an automation:

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.

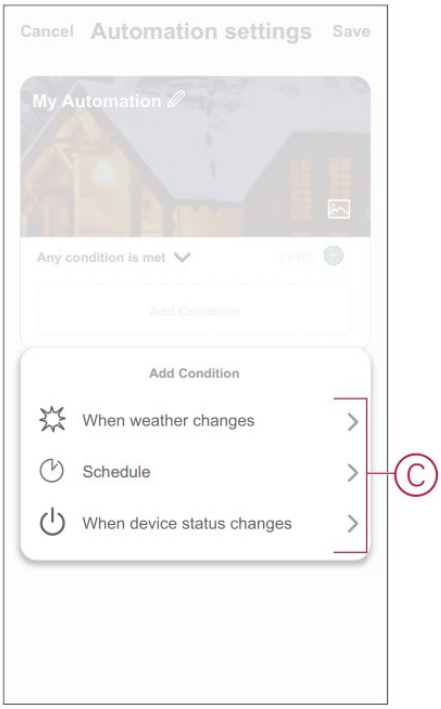
   TIP: You can choose the cover image that represents your automation by tapping .



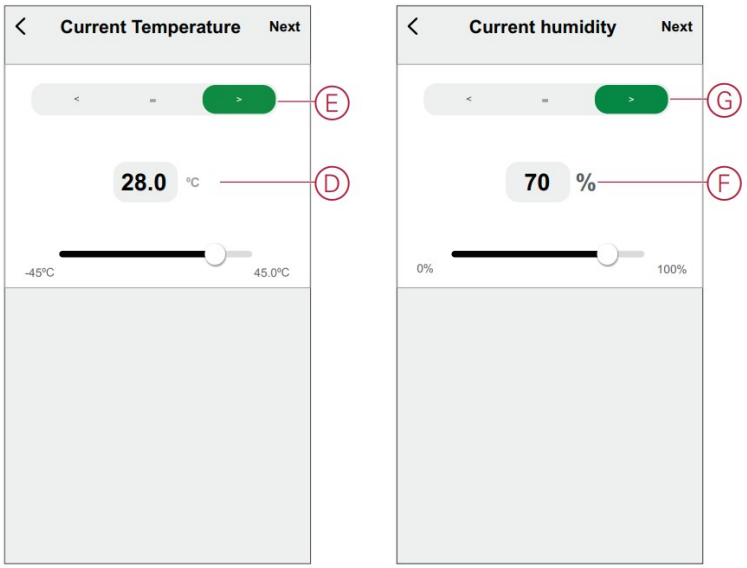
4. Tap Any condition is met to select any one of the condition type (B):
    - All conditions are met- The automation is triggered when all the conditions are met.
    - Any condition is met- The automation is triggered when at least one condition is met.



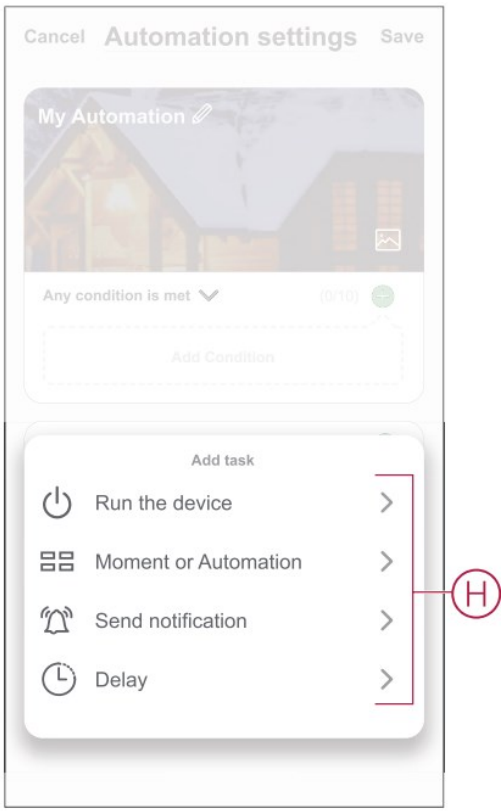
5. Tap Add Condition to display the slide-up menu.
6. In the Add Condition menu, you can do either or all of the following options (C):
    - When weather changes- Select the various weather settings
    - Schedule- Set the time and day
    - When device status changes – Select the device and it's function



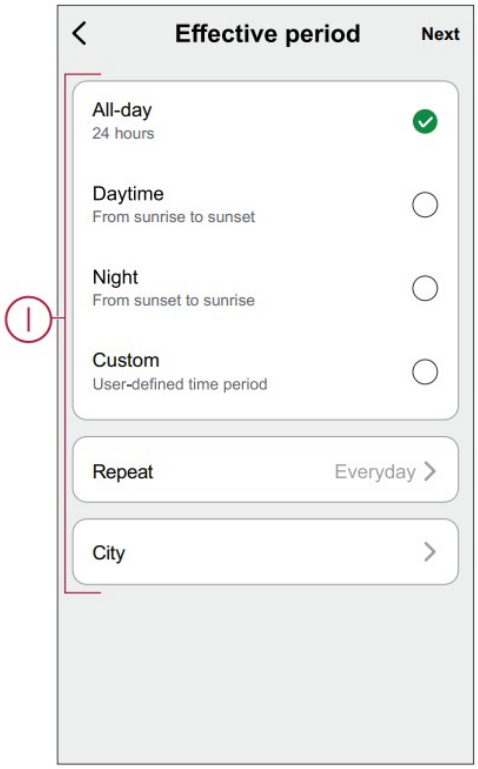
7. Tap When device status changes > Temperature Humidity Sensor to select either or all of the functions to add in the automation:
    - Current temperature – Set the temperature (D) and select the condition (E)
    - Current humidity – Set the humidity (F) and select the condition (G)



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.



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

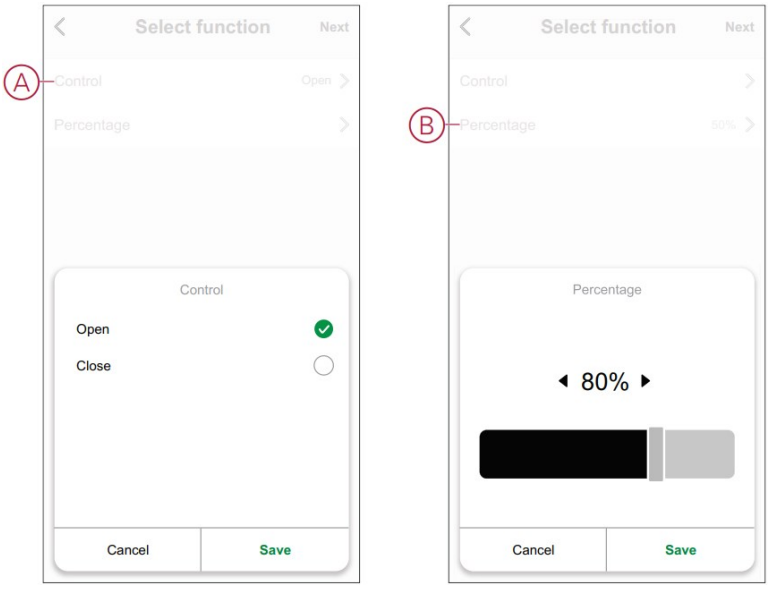


11. Once all the actions and conditions are set, tap Save.

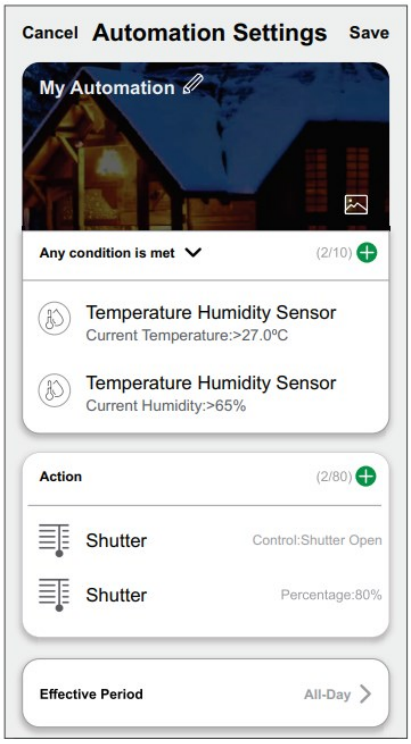
Example of an automation

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.



Editing an automation

To edit 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 actions using .
   - To delete an existing condition or action, slide each item towards left and tap Delete.

Deleting an automation

To delete an automation:

1. On the Automation tab, locate the automation that you want to delete and then tap .
2. Tap Delete and tap Ok.

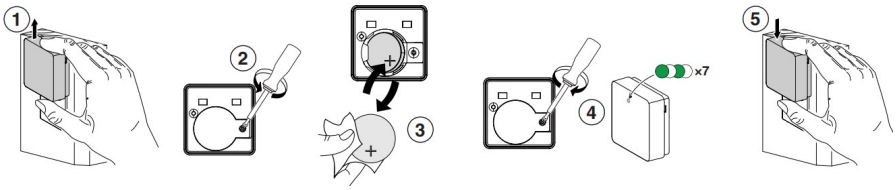
   NOTE: After deleting an automation, the device action can no longer be triggered.

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 used batteries, as per statutory regulations.



LED indications

Pairing

User Action	LED Indication	Status
Press the function key 3 times	LED blinks orange, once per second.	Pairing mode is active for 30 seconds. When pairing is completed, LED glows green for some time before turning Off.

Resetting

User Action	LED Indication	Status
Press the function key 3 times and long press once for > 10 s.	After 10 s, the LED starts blinking red.	The sensor is in reset mode. It is reset to the factory settings after 10 seconds. The sensor then restarts, and the LED starts blinking green before turning Off.

Battery level

LED Indication	Status
LED blinks orange once per minute. 	The battery is low (< 10%), replace the battery, page 18.**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 st atus 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 fir mware update runs in the backgrou nd.
LED blinks orange.	The sensor battery is low or drained.	Replace the battery in the device, page 18**NOTE:** A notificati on pop−up will appear 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 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).

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

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Click the link below to search for a product's compliance information (RoHS, REACH, PEP and EOLI).
NOTE: You will need the product reference number or product range to perform the search.
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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

Documents / Resources

	Schneider Electric Wiser Temperature Humidity Sensor [pdf] User Guide Wiser Temperature Humidity Sensor, Wiser, Temperature Humidity Sensor, Humidity Sensor

References

- Schneider Electric Global | Global Specialist in Energy Management and Automation
- download.schneider-electric.com/files?p_Doc_Ref=CCT593011_HW
- Green Premium | Schneider Electric Global