



Aqara Multi-State Sensor P100 Introduction

continuous connection

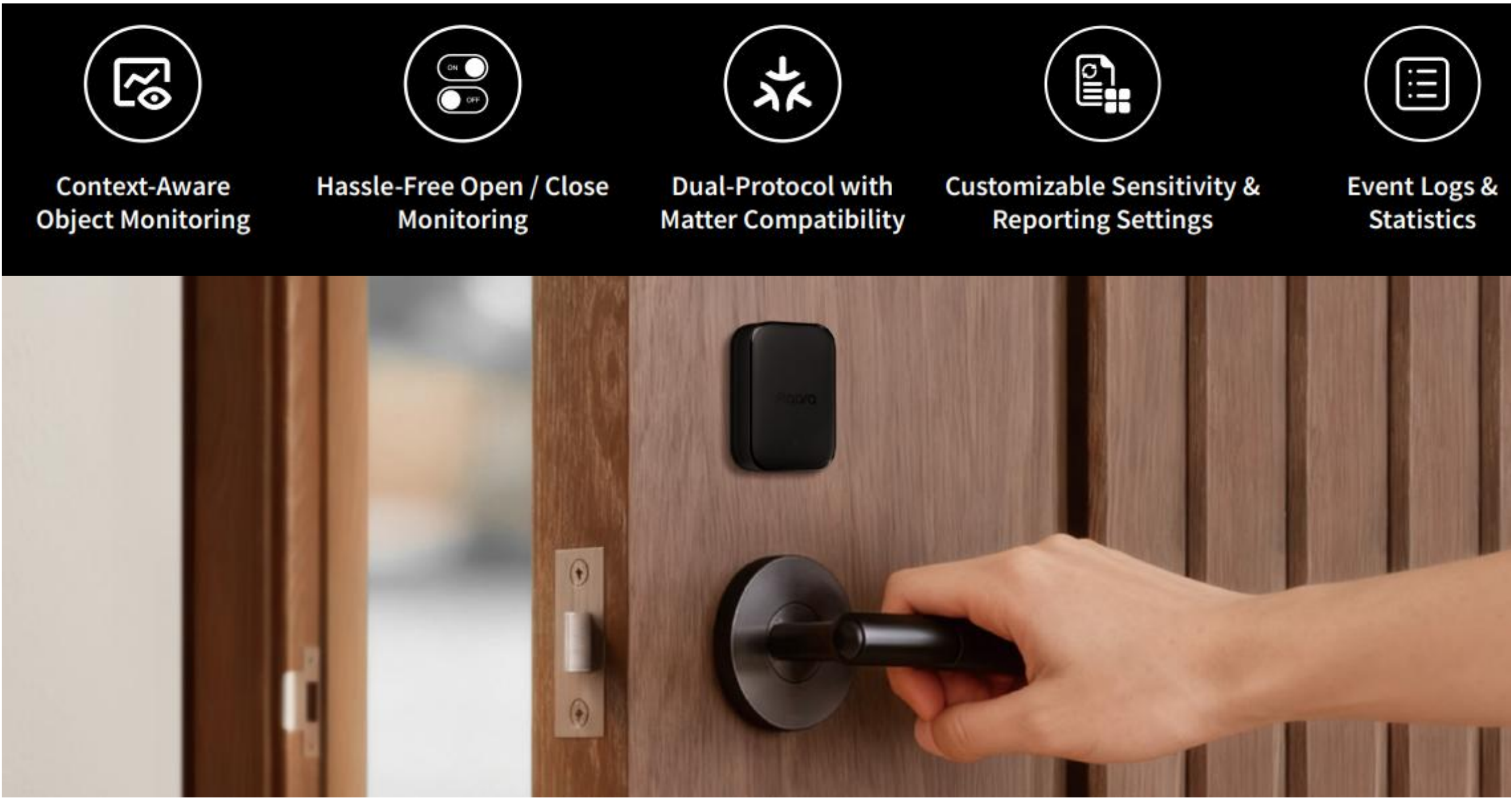
Content

- **Product Introduction**
- **Product Installation**
- **Configuration of App**
- **FAQ**

Product Overview

Powered by high-precision nine-axis sensing, P100 delivers accurate, real-time detection across doors, windows, and everyday objects. Switch between modes to monitor open/close status or track key object events such as orientation changes, movement, drops, and vibration. When a change is detected, P100 can send alerts, trigger local alarms, or start automation, so you always know what’s happening.

- Note:
- * When use in Matter ecosystem, it needs to be used with a Matter hub/gateway.
 - * When use in Aqara ecosystem, it needs to be used with the Aqara Home App and Aqara hub. Some specific functions are only supported in Zigbee protocol mode and Aqara Home.
 - * Item Guardian mode is supported only in Aqara Home Zigbee mode.



Usage Scenario



Door and window opening and closing detection: used for door and window opening and closing state monitoring, to protect home safety.



Valuables Guard: Detect abnormal movement of valuables and guard items safely.



Daily event log: senseless record the time and frequency of various events in life.



Life event reminder: remind users of taking medicine, feeding and other matters according to the status of specific items.

Selling Point

- **Object Monitoring:** Aqara Multi-State Sensor P100 Kit delivers precise multi-event object monitoring^①, detecting orientation, movement, falls, vibration with high accuracy. When changes occur, it instantly reports to the hub to trigger local alarms, app notifications, or smart automation—helping you respond faster and simplify daily routines. Users can select which events to monitor and build state-based automation around object position or stability, making it ideal for security, asset protection, and flexible smart home scenarios.
- **Open/Close Monitoring**^②: Accurately captures every open and close, including hinged, casement, hopper, and composite types, as well as refrigerators or safes. Its compact single-body design allows flexible placement and easy installation, while supporting state-based automation for open/closed status and duration.
- **Dual-Protocol with Matter Compatibility:** Supports both Zigbee and Thread. Advanced features are available in Zigbee mode via the Aqara Home app, while Thread mode provides Matter-based integration with third-party ecosystems such as Apple Home, Amazon Alexa, Google Home, Samsung SmartThings, and Home Assistant. This makes it easy to expand your smart home with broad compatibility and a future-ready setup.
- **Calibration & Self-Learning:** Aqara Multi-State Sensor P100 Kit self-calibrates to its installation and surroundings, establishing an initial reference position for precise detection. Adaptive self-learning algorithms continuously refine detection accuracy over time, correcting minor drifts to ensure accuracy and reduce false alerts, keeping your smart home reliable and hassle-free.
- **Customizable Sensitivity Levels**^③: Adjust the sensitivity and reporting intervals so it only alerts you when necessary. By tailoring these settings, you reduce false notifications, save battery, and keep monitoring accurate—giving you a smarter, hassle-free experience.
- **Event Logs & Statistics:** Keeps a complete log of all events and changes, presented in clear charts. Easily review historical activity of doors, windows, and objects to understand your home at a glance and quickly spot unusual behavior, giving you peace of mind.

- **Disclaimers:**

① This mode is available only in Zigbee mode with the Aqara Home app.

② Only one mode can be active at a time; Object Monitoring and Open/Close Monitoring cannot be used simultaneously.

③ This mode is available only in Zigbee mode with the Aqara Home app.

Product Features - Open/Close Monitoring

Single door and window opening and closing accurate detection, breaking through the traditional double door magnetic installation limit



Aqara Multi-state Sensor P100 is an innovative single-unit door and window sensor that accurately detects the opening and closing status of doors, windows and objects.

Different from the traditional magnetic reed principle of the two-part door and window sensor, P100 integrated high-precision accelerometer, gyroscope, geomagnetic nine-axis sensor, and equipped with Aqara self-developed AI algorithm, only a single independent device, can detect its own movement, posture, rotation angle, comprehensive judgment of door and window opening and closing status.

As the first single-body door and window opening and closing detection sensor, P100 supports flexible installation in any part of the door and window, completely solving the strict requirements of the traditional dual-body sensor for installation position and the pain point after installation. At the same time, it can not only detect regular doors and windows opened around the rotation axis, but also accurately identify the opening and closing state of inclined ventilation compound windows (including only inclined ventilation scenes), realizing "one device for multiple purposes" and adapting to more door and window types and use requirements.

Product Features - Open/Close Monitoring

Flexible single unit installation, not limited by twin installation

Different from the traditional door magnetic sensor, it can be flexibly installed anywhere in the door and window, eliminating the problems of precise alignment, position limitation and unattractive installation of the traditional dual-body door magnetic sensor. Available in black and white, it blends perfectly with any door/window design style.

Support tiltable compound windows

Support attitude and angle recognition, can detect the opening/closing status of doors and windows rotating around the axis, and support the opening and closing detection of compound windows that can be tilted open, feedback tilt and vertical status, adapt to different types of doors and windows in various layouts-one device, multiple functions.



9-axis sensing + artificial intelligence algorithm to ensure stable and reliable detection

High-precision accelerometer, gyroscopes and geomagnetic sensors, combined with proprietary artificial intelligence algorithms, can accurately identify the attitude and angle changes of doors and windows. Automatic calibration of deviations in use for consistent, reliable detection.

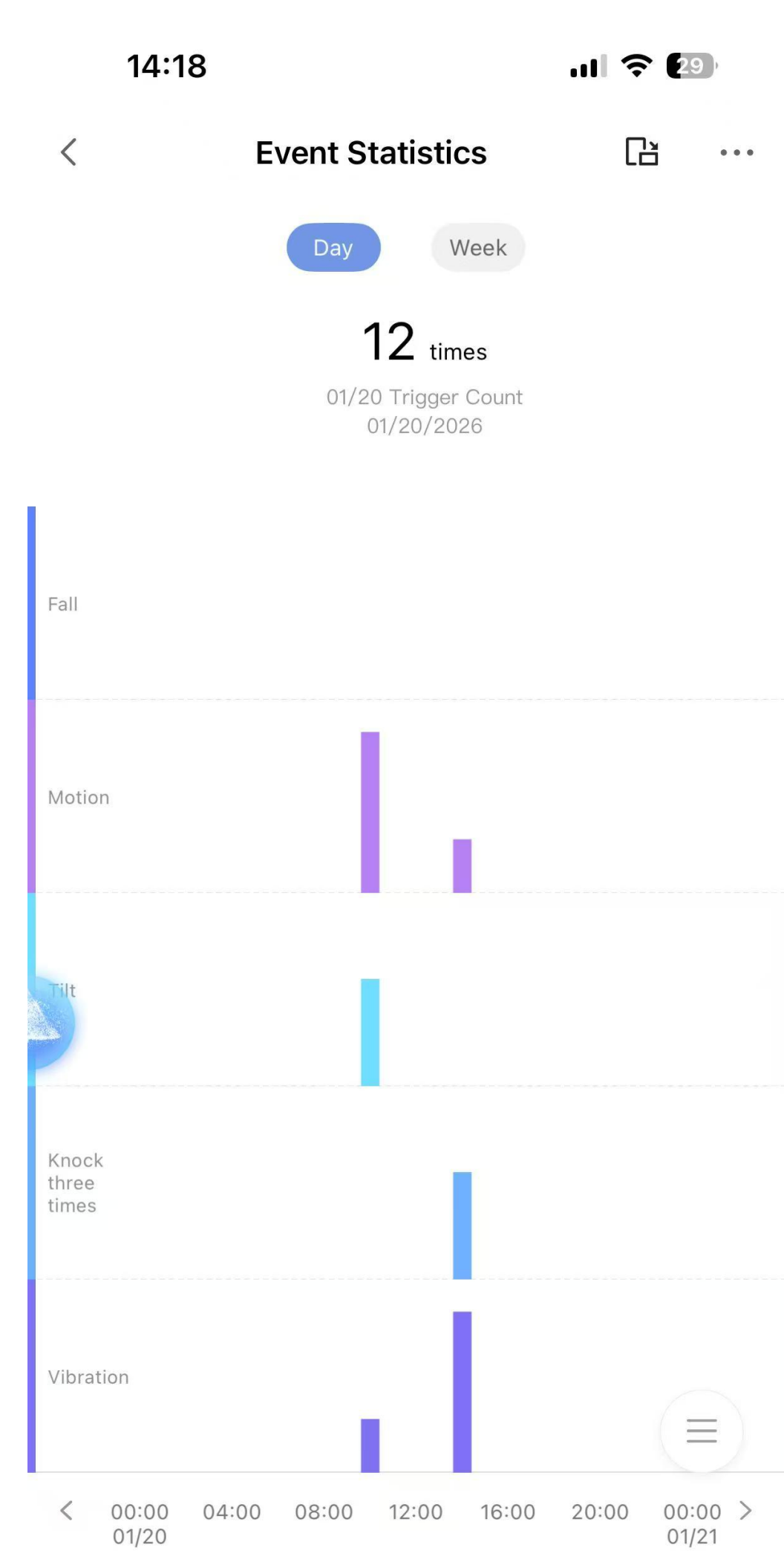
Installation is ready to use, no frequent debugging

After installation, the initial position calibration can be completed by clicking 3 times when closing the doors and windows. The algorithm automatically corrects during use, avoiding the trouble of repeatedly adjusting the position/distance and continuously providing accurate detection.



Product Features - Object Monitoring

Anytime, anywhere, multidimensional state detection



Product Features - Dual-Protocol with Matter Compatibility

Zigbee & Thread Dual-Protocol Support

The outlet supports both Thread and Zigbee for enhanced compatibility and flexibility. You can easily switch between protocols based on your preferences.



Thread Mode

Integrate with multiple platforms through Matter, including Apple Home, Google Home, Amazon Alexa, Home Assistant, Samsung SmartThings, and more.



Zigbee Mode

Using the Zigbee protocol, you unlock more exclusive features in the Aqara Home app, while also enjoying Matter compatibility via a Matter Bridge like our Hub M100.

Product Name	Aqara Multi-State Sensor P100 Kit
Communication Protocols	Thread、BLE、Zigbee
Dimensions	45 × 31 × 13 mm (1.77 × 1.22 × 0.51 in.)
Battery	CR2450 × 1, 3V DC
Protection Rating	N/A
Magnetic Attraction	N/A
Materials	PC+ABS
Wireless frequency	Thread: 2405 - 2480 MHz Zigbee: 2405 - 2480 MHz Bluetooth: 2402-2480 MHz
Maximum Wireless Transmitting Power	Thread: ≤13 dBm Zigbee: ≤13 dBm Bluetooth: ≤ 13 dBm
Operating Temperature	-10° C ~ 55° C (14° F ~ 131° F)
Operating Humidity	0 ~ 95% RH, no condensation
What is in the Box	Multi-State Sensor P100 × 1, Adhesive x 2, User Manual × 1, Protective Cover × 1

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Installation and Calibration

Door and window opening mode:

Function Description:

In door and window monitoring mode, the device can detect angle changes using a nine-axis sensor (three-axis accelerometer, three-axis gyroscope, three-axis geomagnetic sensor), and determine if the door/window is opening or closing. It is suitable for doors or windows that are fixed on horizontal or vertical axes and rotate around a pivot axis, typically including the following types of doors and windows:

1. Swing door: A door fixed on a vertical axis that can rotate horizontally to open and close
2. Casement window: A window fixed on a vertical axis that can rotate horizontally to open and close
3. Awning window: A window fixed on a horizontal axis that can rotate vertically to open and close
4. Combination window: A window fixed on a vertical axis that can rotate horizontally to open, and when closed, can tilt on a horizontal axis for ventilation

Installation Methods:

1. Please peel off the adhesive backing of the device and vertically attach it to the surface of the door or window that needs to be monitored for opening and closing.

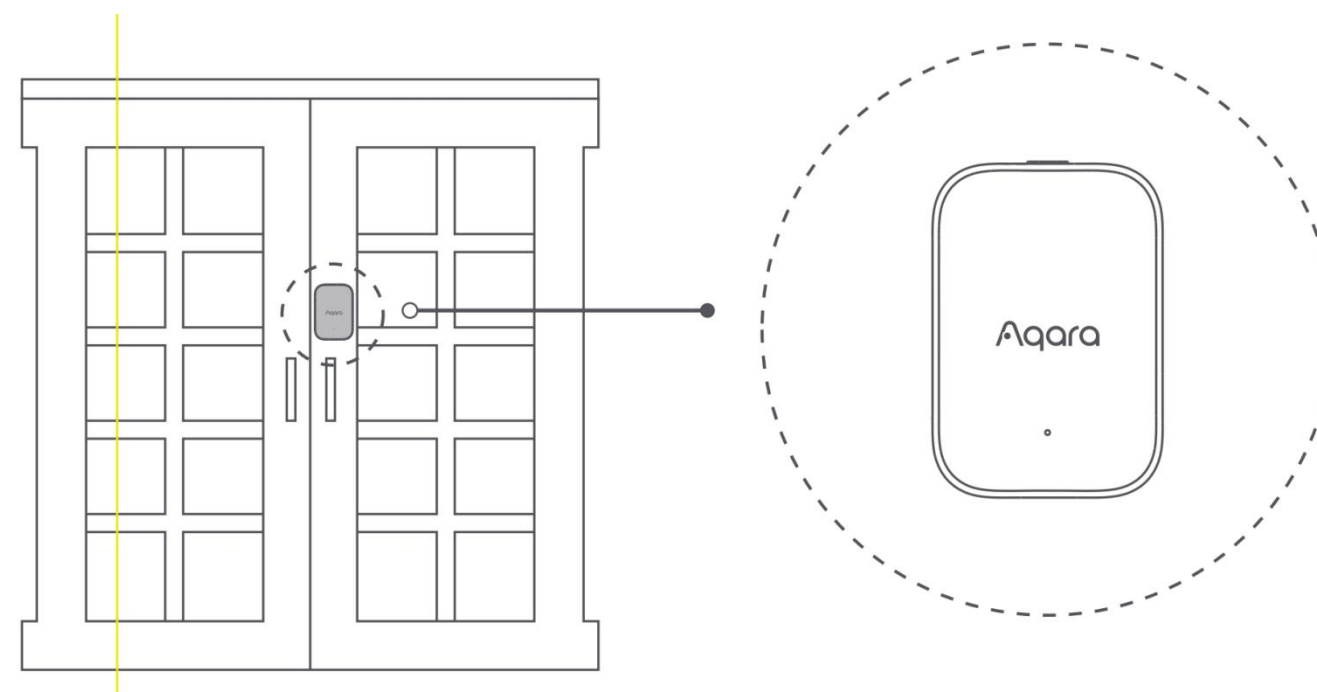
There are no strict requirements for the installation position on doors and windows. It can be installed near the rotating axis, in the middle of the door/window, or on the opening side of the door/window.

*If a smart lock is installed on the door, please avoid installing it near the lock to prevent the current from the motor operation affecting the device's sensor.

2. After installation, please click the button on top of the device 3 times when the door/window is completely closed to complete the device posture calibration. The device indicator will flash quickly and then stay on for 2 seconds to indicate that the calibration is complete.

3. The device's default sensitivity is set to medium. For first-time use, please conduct a performance test. If you find that the Door and Window Monitoring status detection is inaccurate, or if frequent false triggers occur, you can adjust the sensitivity to different levels through the app to achieve proper adaptation.

4. During use, if the posture has shifted or been affected by magnetic fields, it may cause an incorrect display of open/close status. Please follow the steps in step 2 to re-calibrate the device.



Installation and Calibration

Object Status Monitoring mode:

Function Description:

In Object Status Monitoring mode, the device detects movement and vibration to monitor the status of stationary objects, providing alerts for events such as changes in position or unusual activity. Detectable events and postures include:

- 1. Vibration: Detects vibration events, suitable for monitoring slight vibrations of everyday stationary items and tracking the duration of continuous stillness of the device.
- 2. Movement: Detects movement events, suitable for scenarios such as item theft prevention and drawer detection, can trigger alarm notifications or automation in conjunction with other devices.
- 3. Falling: Detects falling events, suitable for protecting valuable items and monitoring the safety of elderly and children, triggers alarm notifications in conjunction with other devices.
- 4. Tap three times: Detects triple tap events, suitable for attaching to stationary surfaces such as desktops, triggers automation in conjunction with other devices.
- 5. Posture: Detects horizontal, vertical, and tilted postures of the device, which can trigger automation through related posture linkage.

To achieve longer device battery life and reduce power consumption caused by unnecessary event reporting, please select the events that need to be monitored according to your actual needs during the configuration process.

Installation methods:

- 1. Peel off the adhesive backing of the device and attach it vertically or horizontally to the surface of the item that needs to be monitored.
- 2. To detect the posture of an object, please attach the device to the surface of the object in the desired horizontal or vertical orientation, then click the button on top of the device 3 times to complete the device posture calibration. The device indicator will flash quickly and then stay on for 2 seconds to indicate that the calibration is complete. The device will calibrate the current posture as the standard horizontal or vertical posture.
- 3. The device's default sensitivity is set to medium. For first-time use, please conduct a performance test. If you find frequent event reporting or false triggers, you can adjust the sensitivity to different levels through the app.
- 4. During use, if the posture has shifted or been affected by magnetic fields, it may cause an abnormal display of open/close status. Please follow the steps in step 2 to re-calibrate the device.

Installation and Calibration

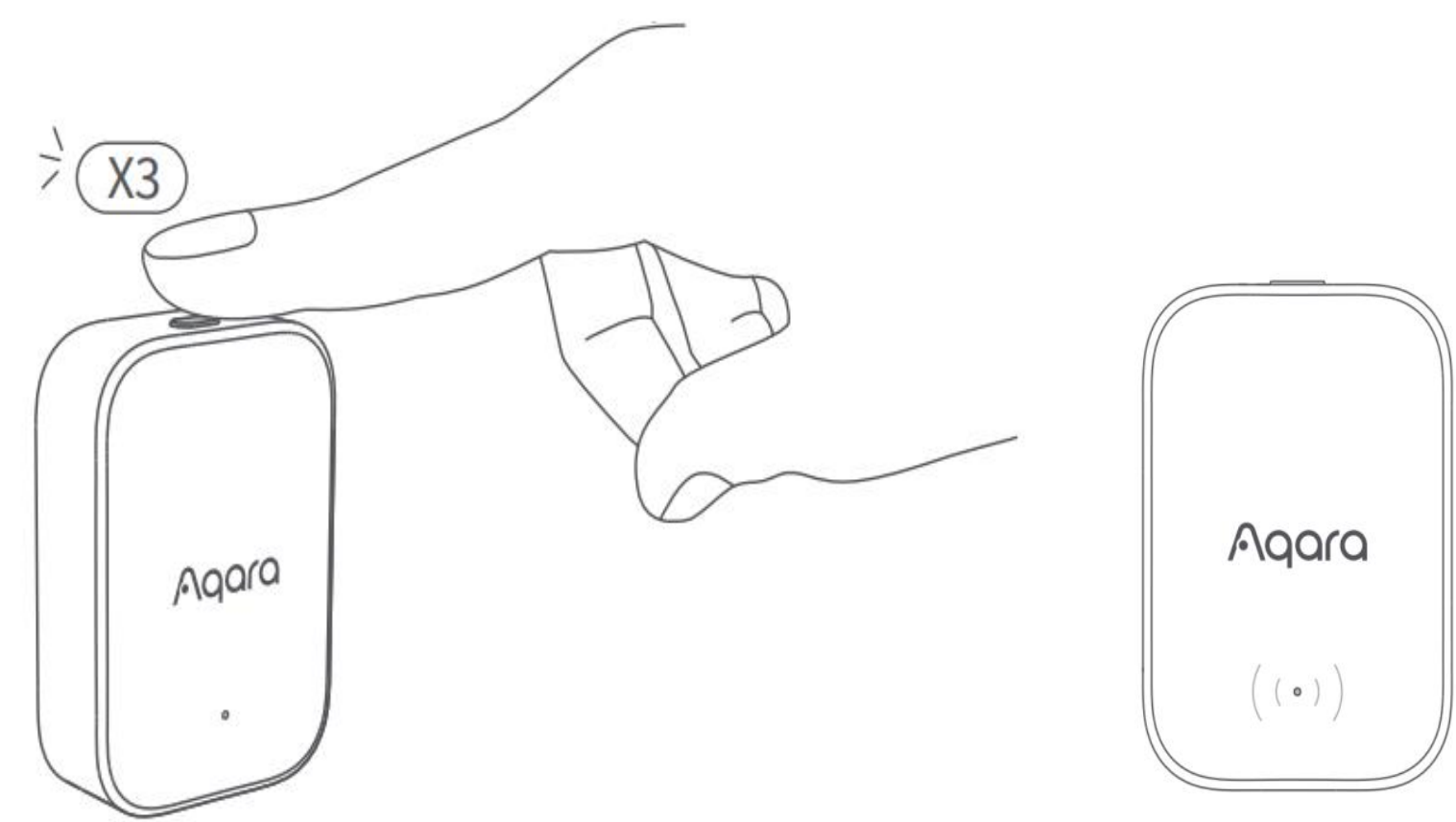
Precautions:

1. The "Door and Window Monitoring Mode" determines the open/close status through the built-in geomagnetic sensor detecting rotation angles, suitable for doors and windows that rotate on a horizontal or vertical axes. It is not suitable for detecting sliding doors, sliding windows, roller shutters, 360-degree revolving doors, drawers, etc. To detect such devices, it is recommended to switch to "Object Status Monitoring Mode", which can indirectly determine status and events by detecting movement, vibration, and flipping. (*"Object Status Monitoring Mode" is only supported by Zigbee protocol)
2. Based on the sensor detection principle, electric current and magnetic fields can affect detection accuracy. When installing, please be careful to avoid the influence of motors and magnetic fields. Please avoid installing near microwave ovens, curtain motors, or smart door locks.
3. The device normally remains in a low-power sleep state and is awakened by vibration to activate its sensors for detection. Frequent vibrations will cause the device to be activated repeatedly, reducing battery life. Therefore, the device is suitable for installation on fixed and stationary doors, windows, and object surfaces in daily use. Please avoid installing it on surfaces that vibrate frequently.
4. The "Object Status Monitoring" mode is not suitable for installation on frequently vibrating appliances such as washing machines, dryers, etc., or for detecting their continuous vibration state. It cannot be used in application scenarios where vibration is used to detect when appliances stop operating.
5. In "Object Status Monitoring" mode, to achieve longer device battery life and reduce power consumption caused by unnecessary event reporting, please select the events that need to be monitored according to the actual needs of your scenario during the configuration process.
6. During use, if you need to change the installation location, the device's posture has unexpectedly shifted, or it has been affected by changes in the surrounding magnetic field, please click the reset button 3 times when the device is stationary and the installed door/window is completely closed to re-calibrate the device's posture and ensure detection accuracy.
7. To avoid the long-term effects of high temperature and direct sunlight on the adhesive's stickiness, please avoid installing on glass or metal surfaces exposed to direct sunlight.
8. The device is installed using adhesive. For safety, please ensure that the device's height does not exceed 2 meters.

Installation and Calibration

Device Calibration Method

During use, if the posture has shifted or been affected by magnetic fields, it may cause abnormal display of open/close status. When the device is stationary, please keep the device vertical or horizontal according to the use scenario, with the door/window closed (in Door and Window Monitoring mode), and calibrate the device by clicking the device button three times.



Creative Use Scenario

Door and window opening mode:

1. Stick it on the refrigerator. When the refrigerator door is opened for more than 1 minute, it will remind the refrigerator door that it is not closed after timeout.
2. Stick it on the toilet lid and record the time and times of toilet every day.
3. Stick it on the medicine box, record the opening time of the medicine box every day, and automatically set the delay time of 8h to trigger the medicine reminder.
4. Stick it on the baby disinfection cabinet, record the time of opening the disinfection cabinet every day to take the milk bottle, and delay 3 hours to remind the next feeding.

Item guard mode:

1. Stick it on the cup, record the drinking time each time through the tilt event, trigger the drinking reminder after a delay, and record the drinking times every day.
2. Stick it on the milk powder tank/medicine box, record the feeding/taking time and times by tilting or moving the event, and trigger the next feeding or taking reminder after delay.
- 3, attached to the table, used to detect the user knock three times action, linkage switch lights and other automatic actions or trigger specific scenes
4. Stick it on the safe or valuables. If abnormal vibration events are detected, the gateway will alarm and send mobile phone notifications.
5. Put it inside the drawer, detect movement events, record drawer use time, or trigger an alarm if abnormal movement occurs.
6. Paste it on famous paintings or important objects, and remind them when they detect movement or fall.
7. Paste it on the express box or mailbox at the door of your home. If it is inclined, push a reminder to collect packages or letters in time.
- 8, affixed to the window glass, sensitivity set to low, when the glass is broken (large amplitude vibration), notification and security alarm

Indicator Light, Reset and Factory Reset

Button Actions	Description
Click the reset button	Check the Zigbee hub connection and verify the effective range of the hub.(Only triggered when binding to a Zigbee hub)
Press and hold the reset button for more than 5 seconds	Resets the device and enters pairing mode
Quickly press the reset button 10 times	Factory Reset
Triple-click the button	Triple-click the button, and the device will calibrate based on its current posture. It is recommended to calibrate when the door/window is closed and the device is in a horizontal/vertical position.

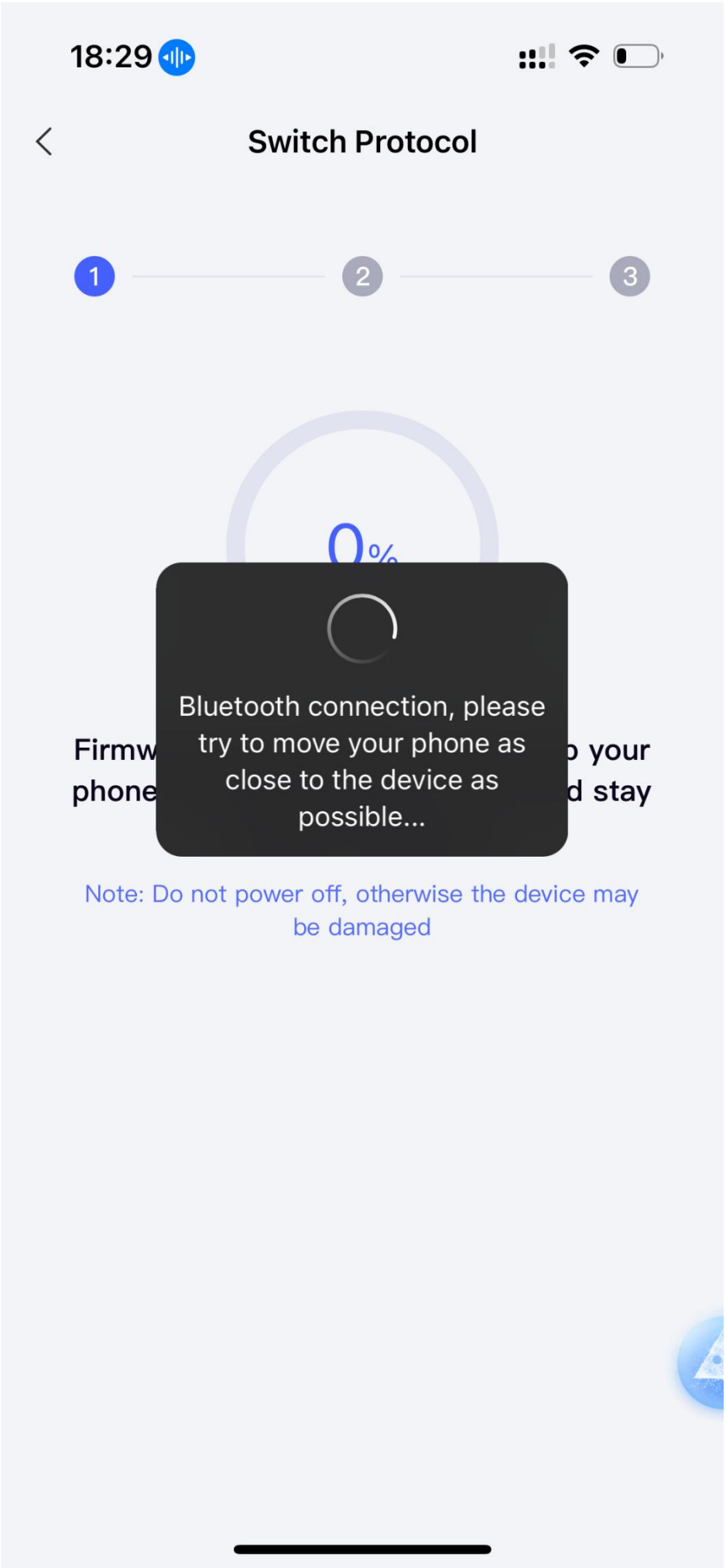
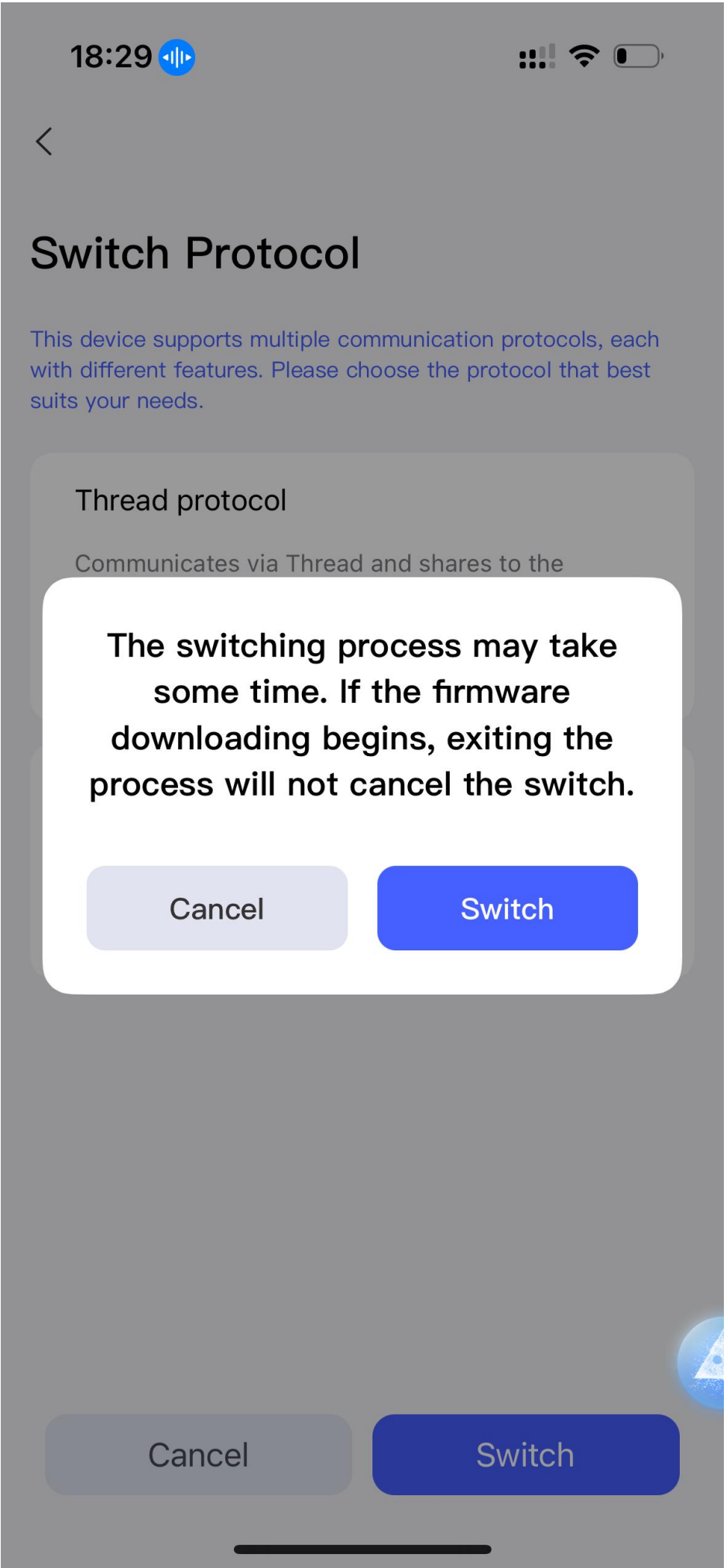
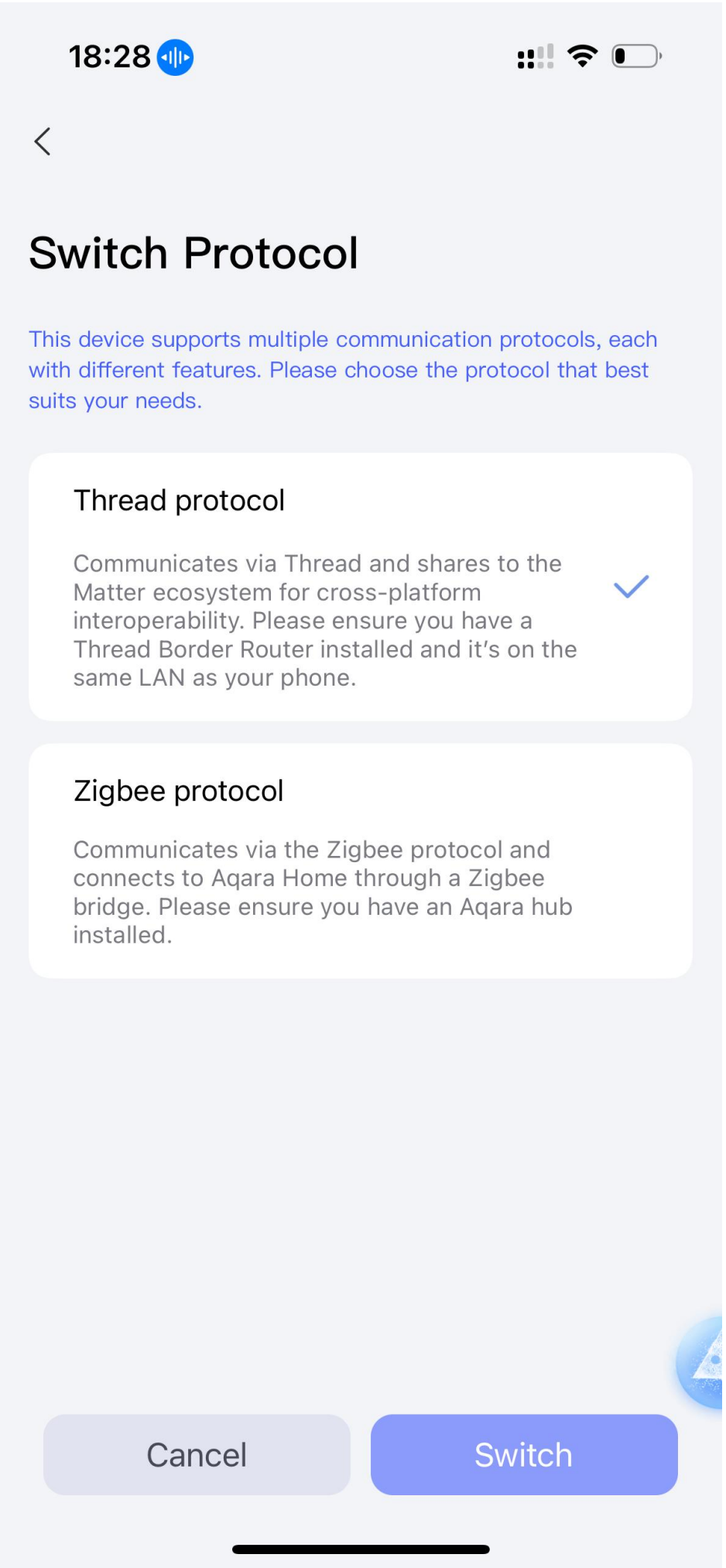
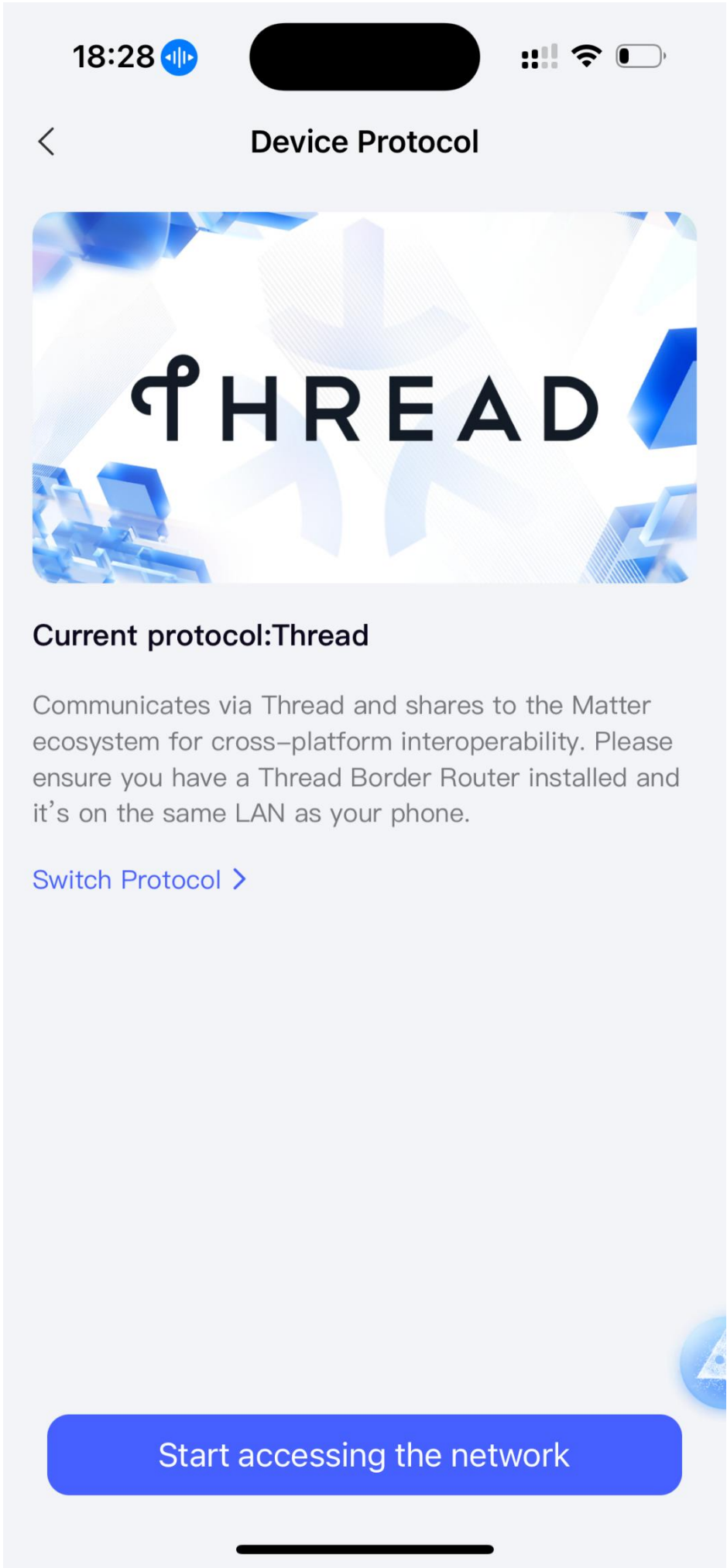
Indicator Light Status	Device Status
Blue light flashes quickly 1 time	Click the device and the blue light will flash quickly once
Blue light flashes quickly 3 times	After powering on, restarting, or factory reset, this indicates that the power supply is normal
Blue breathing	This indicates that the device is in broadcast mode. After 10 minutes, the broadcast ends, the light turns off, and the device enters deep sleep mode.
Blue light continuously flashes quickly	When resetting the device, the blue light flashes rapidly until the button is released within 3 seconds During the pairing phase, the blue light continuously flashes quickly, indicating successful pairing
Blue light stays on for 1 second	Indicates successful addition
Blue light flashes quickly 9 times, then stays on for 2s before turning off	This indicates that the device posture calibration is successful.

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Device Binding

In the Aqara Home app, click 'Add Device,' then scan the Matter QR code under the device button. On the network setup page, select 'Switch Protocol' and choose the protocol type you need. Wait for the device to switch protocols.



11:15

AI Multi-dimensional Status Sen...

AI Multi-dimensional Status Sensor P100
Default Room

Device Card

Function Settings

Function Settings

Sensitivity

Reporting Interval
Time interval for data uploading1min

General Settings

HubHub M3

Signal Strength

Firmware Update0.0.0_0020

Communication ProtocolZigbee

10:43

Function Settings

Current modeObject Monitoring

Detection Events

Device Calibration

Device installation

14:30

Please select a working mode

Open/Close Monitoring
Detects open/close for doors, windows, and other hinged items.

Confirm to switch mode?

To ensure accurate monitoring data, switching modes requires reconfiguration of functions and device calibration.

Cancel

Switch

Please select door/window type

The current device only supports the following types. Please select the door/window type that is closest

Door

Hinged Door
Fixed on one side, can be opened inward or outward

Window

Casement Window
Fixed on one side, can be opened inward or outward

Hopper Window
Fixed on top or bottom, can be tilted open

Composite Window
Combines the functions of a casement window and a hung window, can be opened flat or tilted open

Not one of the above types?

Next step

Device installation

Please remove the adhesive backing from the device and vertically attach it to the door or window that needs to be monitored.

It is recommended to install on the side away from the rotation axis, and avoid metal objects, magnets, motors, etc. to improve detection accuracy.
*Note: If using a protective case, please remove the original adhesive from the device first, then attach the new adhesive to the back of the protective case before installation.

Next step

continuous connection

Open/Close Monitoring Mode

14:31

28

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Device Calibration

Please ensure the device is installed vertically, and when the door/window is closed, quickly press the top button of the device 3 times for manual calibration. The blue light on the device will flash and then stay on for 2 seconds, indicating calibration is complete.

Note: If you change the installation position, installation angle, or the device is affected by a magnetic field, please recalibrate.



☐ I confirm the above is complete

Done

14:31

28

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AI Multi-dimensional Status Sen...

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Close

Moments Ago

Full

Open/Close Log

Open count statistics

14:39

27

<

AI Multi-dimensional Status Sen...

Today

14:39:20

Opened

Detected For: 22Second

14:38:58

Closed

Detected For: 21Second

14:38:52

Opened

Detected For: 5Second

14:32:08

Closed

Detected For: 6min44Second

14:32:04

Opened

Detected For: 4Second

14:31:59

Closed

Detected For: 4Second

14:31:41

Opened

Detected For: 18Second

14:31:22

Closed

Detected For: 18Second

14:31:20

Opened

Detected For: 2Second

No More Data Available

14:39

27

<

Open count statistics

...

Day

Month

5 times

Times Opened Today

01/20/2026

5times

0times

<

00:00

04:00

08:00

12:00

16:00

20:00

00:00

>

01/20

01/21

11:15

AI Multi-dimensional Status Sen...

AI Multi-dimensional Status Sensor P100
Default Room

Device Card

Function Settings

Function Settings

Sensitivity

Reporting Interval
Time interval for data uploading1min

General Settings

HubHub M3

Signal Strength

Firmware Update0.0.0_0020

Communication ProtocolZigbee

10:43

Function Settings

Current modeObject Monitoring

Detection Events

Device Calibration

Device installation

10:48

Open/Close Monitoring

Detects open/close for doors, windows, and other hinged items.

Object Monitoring

Detects movement, drops, and vibration, and tracks an object's orientation (horizontal, vertical, or tilted) and whether it's at rest or in motion.

Next step

11:14

Please select what you want to detect

Select detection events as needed to improve device battery life. Automated actions can also be set for selected events.

Orientation

Can detect horizontal, vertical, and tilted states

Movement

Can detect movement events, suitable for theft prevention and drawer detection

Fall

Can detect fall events, suitable for monitoring valuable items, elderly people, or children

Vibration

Can detect object vibration events, suitable for object monitoring or vibration detection

Triple Tap

Can detect a triple tap, suitable for sticking on surfaces, allowing you to create

Cancel

Save

10:44

Device installation

Please remove the backing from the device and stick the device on the item that needs to be monitored.

When installing, please avoid metal objects, magnets, motors, etc. to improve detection accuracy.
*Note: If using a protective case, please remove the original adhesive from the device first, then attach the new adhesive to the back of the protective case before installation.

Done

10:43

Device Calibration

Please quickly press 3 times for manual calibration when the item is in a horizontal or vertical stationary state. The blue light on the device will flash and then stay on for 2 seconds, indicating calibration is complete.

*Note: If you change the installation position, installation angle, or the device is affected by a magnetic field, please recalibrate.

I Got It

Object Monitoring Mode

Aqara

14:13

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AI Multi-dimensional Status Sen...

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Vibration Detected

Moments Ago

Current Position: Vertical

Full

Detection Log

Stationary: 2 seconds

>

Event Statistics

>

14:12

<

AI Multi-dimensional Status Sen...

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Triple Tap

Moments Ago

Current Position: Vertical

Full

Detection Log

Stationary: 2 hours51min33 seconds

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Event Statistics

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14:12

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AI Multi-dimensional Status Sen...

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Movement Detected

Moments Ago

Current Position: Vertical

Full

Detection Log

Stationary: 4 seconds

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Event Statistics

>

14:18

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AI Multi-dimensional Status Sen...

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All Events

Movement

Vibration

Fall

Tilt

Today

14:14:28

Vibration

14:14:11

Triple Tap

14:13:49

Vibration

14:12:45

Movement

14:11:45

Triple Tap

14:11:43

Vibration

10:57:03

Movement

10:56:27

Tilt

10:56:24

Vibration

10:55:45

Movement

14:18

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Event Statistics

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Day

Week

12 times

01/20 Trigger Count

01/20/2026

Fall

Motion

Tilt

Knock three times

Vibration

<

00:00 01/20

04:00

08:00

12:00

16:00

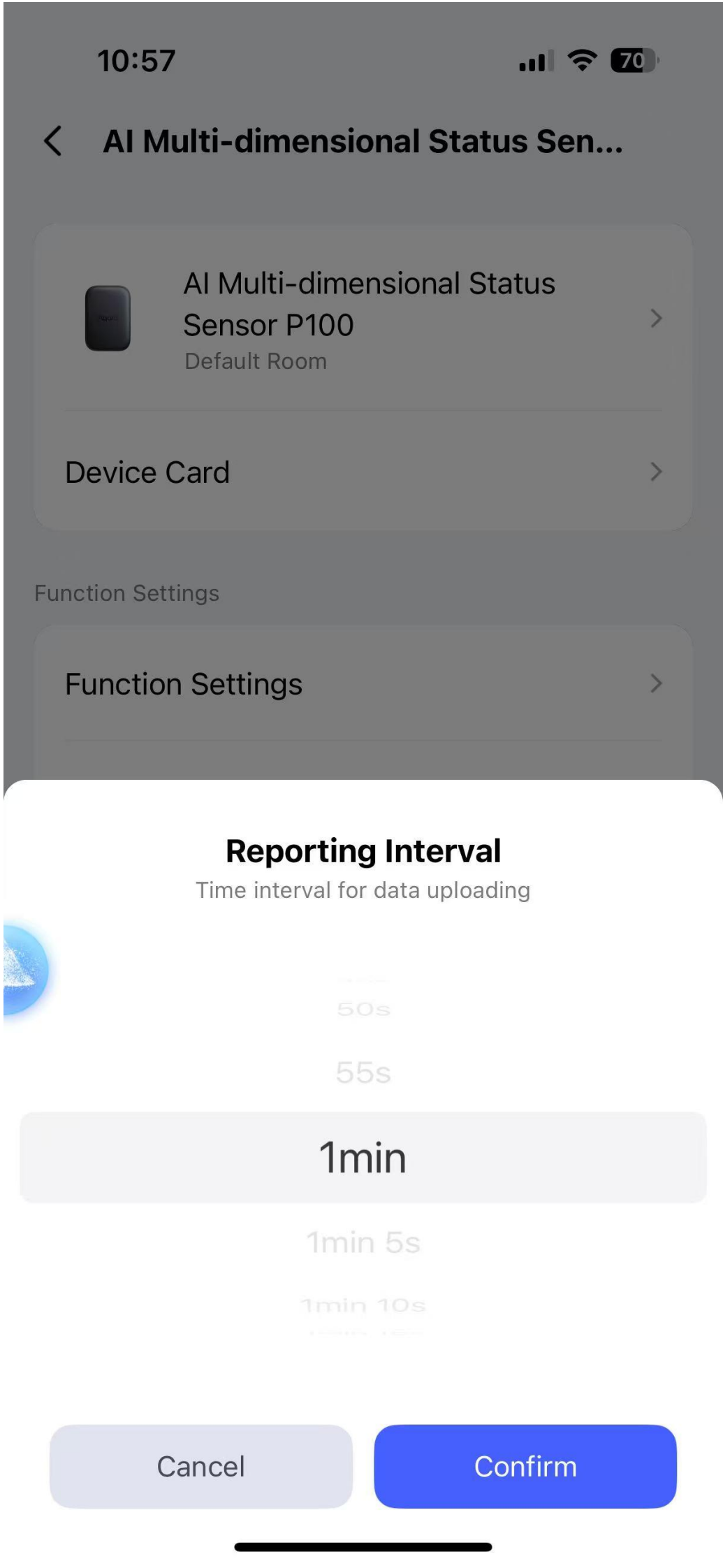
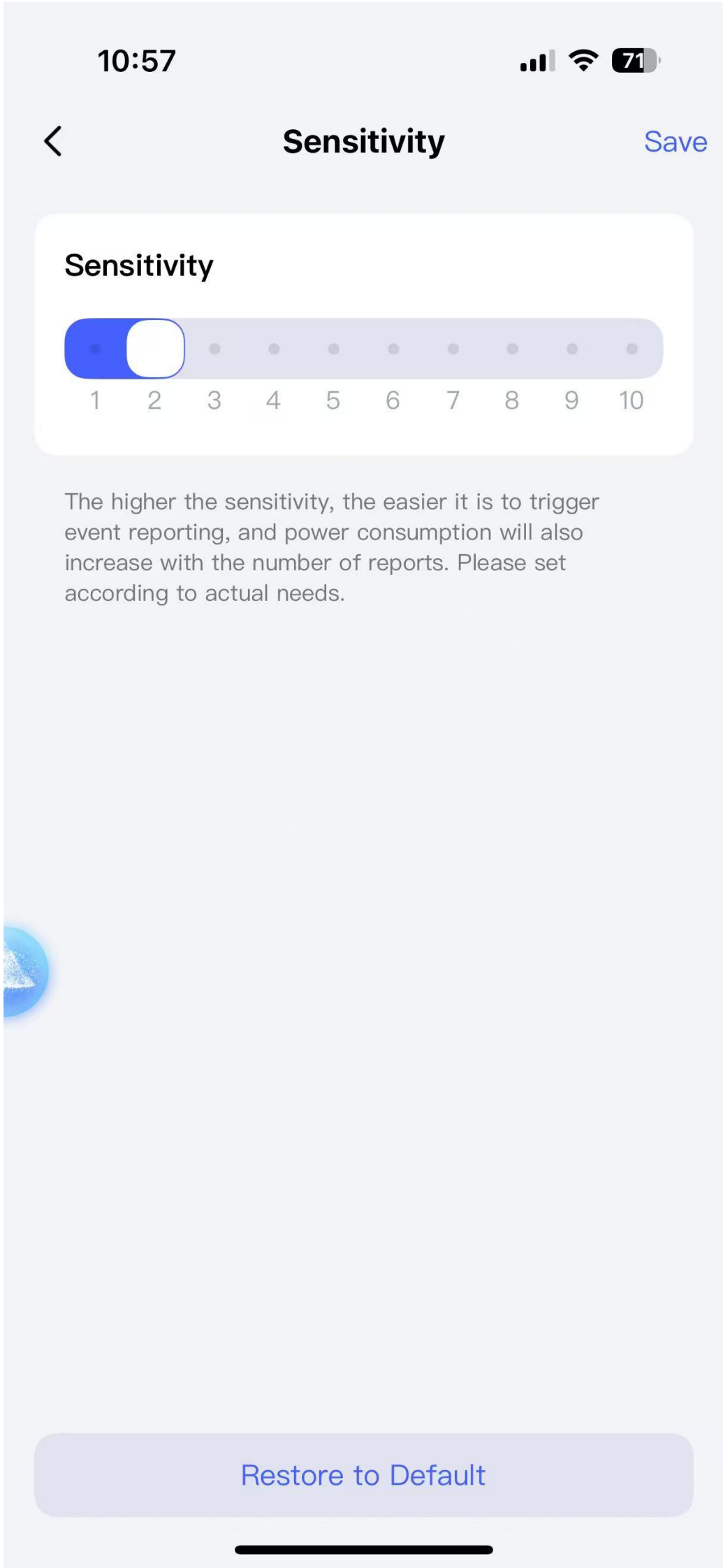
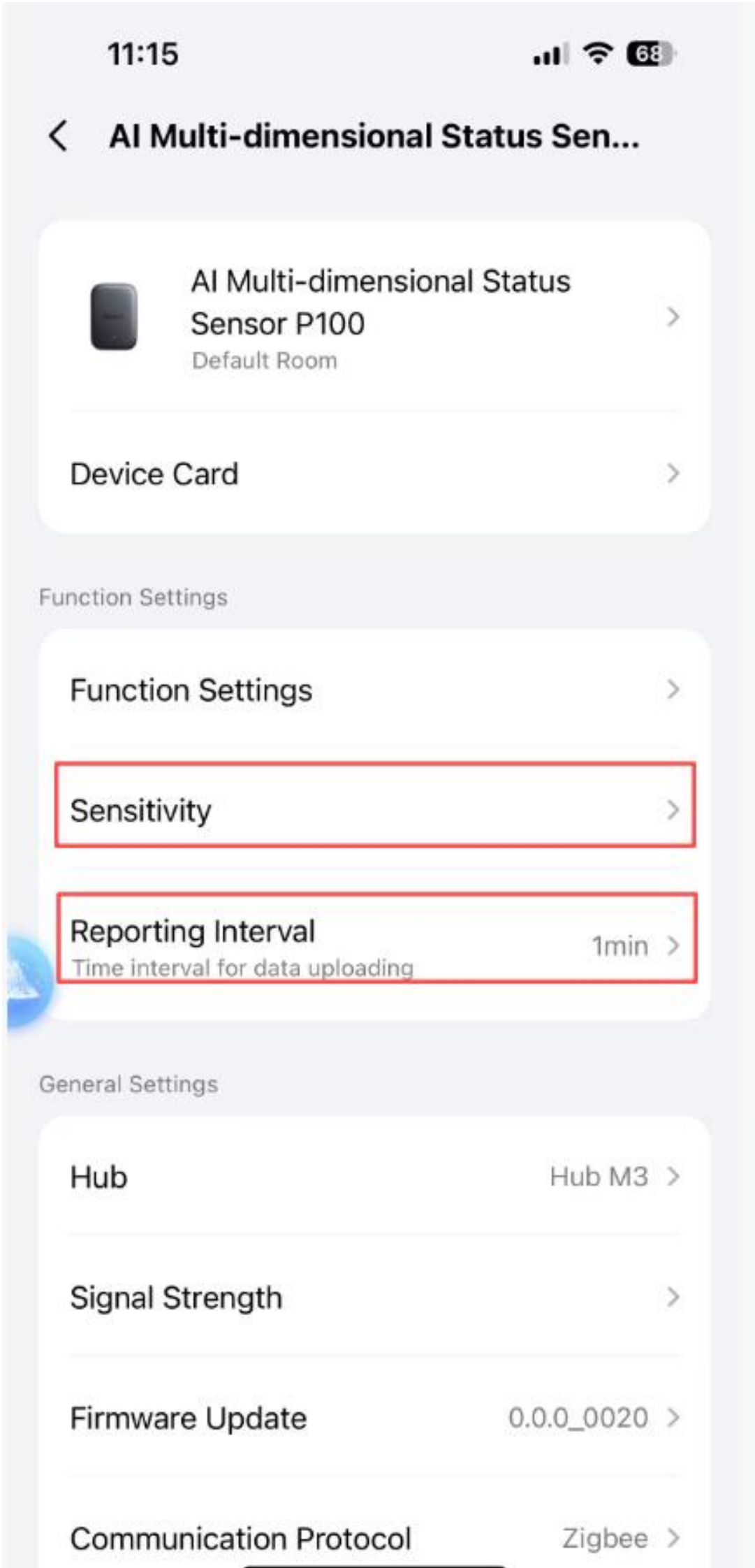
20:00

00:00 01/21

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continuous connection

Device Settings



continuous connection

Automation

WHEN

10:58

70

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AI Multi-dimensional Status Sen...

Tilting detected

Motion detected

Vibration detected

Drop detected

Triple tap detected

In stationary state

Remains stationary beyond a defined time

Item is in horizontal face-up position

Item is in horizontal face-down position

Item is in tilted position

Item is in vertical position

AND

10:58

70

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AI Multi-dimensional Status Sen...

In stationary state

Remains stationary beyond a defined time

Item is in horizontal face-up position

Item is in horizontal face-down position

Item is in tilted position

Item is in vertical position

THEN

10:58

70

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AI Multi-dimensional Status Sen...

Device posture calibration

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FAQ

Can open/close detection and item guard modes be used simultaneously?

Item Guarding Mode can be supported in Zigbee protocol. Due to different detection methods, it is a one-of-two relationship with Open/Close mode. Please select the applicable working mode according to the usage scenario.

What wireless protocols does the device support?

It supports Thread and Zigbee protocols and can join Aqara Home or the Matter ecosystem supported by third parties. By adding Matter directly to the third-party ecosystem, it is a door and window sensor, which can realize door and window opening and closing detection.

Can the device be used to detect the working status of washing machines?

The device is suitable for installation on the surface of fixed and stationary items in daily life. Frequent vibration will cause the device to be frequently awakened and the battery life will drop rapidly. It is recommended to avoid frequent vibration items and areas.

How long does the device last?

When installed on the surface of fixed and static objects in daily life, and under normal non-high frequency triggering conditions, Zigbee protocol theoretical life is 2-3 years, Thread protocol (join single platform) theoretical life is 1-1.5 years, the actual life of the device will be affected by many factors such as actual use frequency, installation environment interference, number of platforms, network connection signal, battery performance, environmental temperature and humidity, etc., please subject to actual use.

Is there anything to watch out for in the installation environment?

Since the equipment detects the angle through the geomagnetic sensor, the current and magnetic field will affect the accuracy of the equipment. Please pay attention to avoid the influence of the motor and magnetic field during installation.

FAQ

How to access the network through Matter?

Open Aqara Home App, enter the home page, click "+" in the upper right corner, and follow the prompts to complete the addition; Through the third-party Matter ecosystem, start "Add Device" in the corresponding App and scan the Device Matter Code to complete.

What are the steps to access the network through Zigbee protocol?

Go to the Aqara Home App homepage and click "+", select the corresponding device, click Switch Zigbee protocol, download firmware and select Gateway to complete the addition.

What is the operating temperature and humidity range of the equipment?

Working temperature-10 °C~55°C, working humidity 0~95% RH non-condensing. Please note that too low temperature may lead to reduced battery performance and reduced battery life.

How to quickly get the latest firmware when connecting to third-party platforms?

Add your device to the Aqara Home APP and update the firmware to the latest version on the device settings page. If the latest firmware is not supported on the third-party platform, the latest firmware synchronization can be completed by adding it to the Aqara Home APP and selecting to switch the protocol once (firmware is transmitted directly through Bluetooth on mobile phones, without Aqara gateway).

THANK YOU