



Manuals.plus /

- › Aqara /
- › Aqara Door and Window Sensor P2 User Manual

Aqara DW-S02E

Aqara Door and Window Sensor P2 User Manual

Brand: Aqara | Model: DW-S02E



1. INTRODUCTION

The Aqara Door and Window Sensor P2 is a state-of-the-art contact sensor designed to enhance your smart home security and automation. As one of the first sensors to natively support Matter over Thread, it offers enhanced connectivity, low power consumption, and robust stability. This sensor precisely detects the open/closed status of doors, windows, and drawers, providing real-time notifications and enabling local automations within your smart home ecosystem.



Image: The Aqara Door and Window Sensor P2, showing the main unit and the accessory unit, alongside its product packaging.

2. WHAT'S IN THE BOX

- Sensor Main Unit × 1
- Sensor Accessory Unit × 1
- Magnet × 1
- Sticker × 2
- Quick Start Guide × 1
- CR123A Battery (pre-installed)

Note: The CR123A battery is included and already inserted into the sensor for your convenience.

3. SETUP GUIDE

3.1 System Requirements

To utilize the full capabilities of the Aqara Door and Window Sensor P2, a Matter Controller and Thread Border Router (2-in-1 functionality) is required. This enables seamless integration with various Matter-enabled smart home

ecosystems.

- **Tested Hubs:** Aqara Home (Hub M3), Apple TV 4K (3rd gen, 128 GB), Apple TV 4K (2nd gen), HomePod (2nd gen), HomePod mini, Samsung SmartThings Hub v3, Aeotec Hub v3, SmartThings Station, Amazon Echo (4th gen), Google Nest Hub (2nd gen), Nest Hub Max, Nest Wi-Fi Pro.
- The functionality and automation conditions may vary across different ecosystems.

Matter Controller or Thread Border Router Support: what is required?

Minimum Requirement:

2-in-1 Matter Controller & Thread Border Router

A growing number of Thread Border Routers with Matter controller functionality are tested:



Apple TV 4K (3rd gen, 128 GB)
Apple TV 4K (2nd gen)
HomePod (2nd gen)
HomePod mini



SmartThings Hub v3
Aeotec Hub v3
SmartThings Station



Echo (4th generation)



Nest Hub (2nd gen)
Nest Hub Max
Nest Wi-Fi Pro



Home Assistant Yellow

Matter-enabled app



(e.g., Alexa)

Matter-over-Thread device



(e.g., Door and Window Sensor P2)

+

A 2-in-1 that supports this app



(e.g., Echo (4th generation))

Image: Visual representation of the minimum requirements for the Aqara Door and Window Sensor P2, including compatible Matter Controllers and Thread Border Routers.

3.2 Initial Setup and Pairing

Follow these steps to prepare and pair your sensor:

1. **Remove Insulating Tab:** Gently pull out the insulating tab from the main sensor unit. The indicator light should start "breathing" (pulsing).
2. **Reset/Pairing Mode:** If the indicator is not breathing, press and hold the reset button (small circular button on the main unit) for 5 seconds until the LED indicator starts blinking, then release it.
3. **Open Matter-compatible App:** Open your preferred Matter-compatible smart home app (e.g., Apple Home, Google Home, Amazon Alexa).

4. **Scan Setup Code:** Scan the Matter QR code found on the user manual or product packaging. Alternatively, enter the numeric setup code manually.
5. **Follow On-Screen Prompts:** The app will guide you through the remaining pairing process, including assigning the sensor to a room and giving it a unique name.

Your browser does not support the video tag.

Video: Official Aqara Door and Window Sensor P2 Installation Video. This video demonstrates the unboxing, initial setup, and pairing process for the sensor.

3.3 Physical Installation

For optimal performance, ensure proper alignment and placement:

1. **Clean Surface:** Ensure the installation surface (door/window frame and door/window itself) is clean and dry.
2. **Attach Main Unit:** Install the sensor main unit on a non-movable surface (e.g., door frame) using the adhesive backing.
3. **Attach Accessory Unit:** Install the accessory unit on the movable surface (e.g., door or window) using its adhesive backing.
4. **Align Marking Lines:** Try to align the sensor main unit and accessory unit's marking lines as much as possible.
5. **Maintain Proximity:** Ensure the accessory unit is within 2 cm (0.79 in.) from the main unit when the door/window is closed.
6. **Optional Flat Magnet:** The provided flat magnet can be used to replace the accessory unit in situations requiring a more discreet or specific installation.

Voice Alerts and Status Notifications



Siri



Google Assistant



Alexa



'Someone enters the main door!'



'Hey Siri, is my garage door open?'

* The functionality such as automation conditions may vary throughout the different ecosystems

Image: The Aqara Door and Window Sensor P2 installed on a door frame, demonstrating proper alignment of the main and accessory units.

4. OPERATING INSTRUCTIONS

4.1 Open/Closed Status Monitoring

The Aqara Door and Window Sensor P2 features a built-in high-precision Hall sensor that accurately detects the open or closed status of various entry points. When the sensor is triggered (i.e., the door or window opens or closes), it sends real-time alert notifications to your smartphone, keeping you informed whether you are home or away.

Build upon Thread Protocol

	Thread	Zigbee	Wi-Fi
Native IP Addressability	Yes	No	Yes
Practical Network Size Limit	200+*	100+	~50
Typology	Mesh	Mesh	Star
Stability	Highest [High + dynamic leadership]	High	Medium/Low
Security	Highest AES-128, ECC	High AES-128	High AES-128/256
Power Consumption	Very Low	Very Low	High

* The network limits may vary depending on the ecosystem, used Border Router and Mesh Extenders

Image: Various applications of the Aqara Door and Window Sensor P2, including monitoring doors, windows, refrigerators, toilets, safety boxes, and bird cages.

4.2 Voice Alerts and Status Notifications

The sensor supports integration with popular voice assistants such as Apple Siri, Amazon Alexa, and Google Assistant. This allows you to receive audible alerts about events (e.g., "Someone enters the main door!") or inquire about the status of a monitored entry point (e.g., "Hey Siri, is my garage door open?").

Native Matter Support



RELIABILITY

SIMPLICITY

SECURITY

INTEROPERABILITY



* The functionality such as automation conditions may vary throughout the different ecosystems, Aqara Home and hubs are not supported currently

Image: The Aqara Door and Window Sensor P2's compatibility with voice assistants like Siri, Google Assistant, and Alexa for alerts and status inquiries.

4.3 Local Home Automations

Integrate the Door and Window Sensor P2 with your smart home ecosystem to create advanced local automations. These automations are executed without relying on cloud services, enhancing privacy and ensuring functionality even without an internet connection. Examples include adjusting thermostat settings or activating security cameras when a door or window is opened.

5. MAINTENANCE

5.1 Battery Replacement

The Aqara Door and Window Sensor P2 is powered by a CR123A lithium metal battery. This powerful battery provides uninterrupted protection with infrequent replacements, offering a long battery life that may vary depending on the connected border router and Matter app.

5.2 Factory Reset

To perform a factory reset and clear all function settings and network data of the device, click the reset button ten times. This can be useful for troubleshooting or re-pairing the device.

6. TROUBLESHOOTING

If you encounter any issues with your Aqara Door and Window Sensor P2, please refer to the following general advice:

- Ensure the sensor is within range of your Thread Border Router.
- Verify that the battery is properly installed and has sufficient charge.
- Check the alignment of the main unit and accessory unit; they should be within 2 cm when closed.
- Perform a factory reset if the device is unresponsive or cannot be paired.
- Consult the official Troubleshooting Guide (PDF) for more detailed solutions.

7. SPECIFICATIONS

Feature	Detail
Model Number	DW-S02E
Product Dimensions	3.03 x 1.32 x 0.87 inches
Item Weight	1.41 ounces
Battery Type	1 Lithium Metal battery (CR123A)
Control Method	Remote
Mounting Type	Door Mount
Sensor Technology	Contact Sensor
Color	White
Manufacturer	Lumi United Technology Co., Ltd
UPC	192784000847
First Available Date	February 1, 2023

8. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official Aqara website or contact their customer service directly. You can also find additional resources and the full user manual in PDF format via the following link:

[View Full User Manual \(PDF\)](#)

