



Aqara Presence Multi-Sensor FP300 Introduction

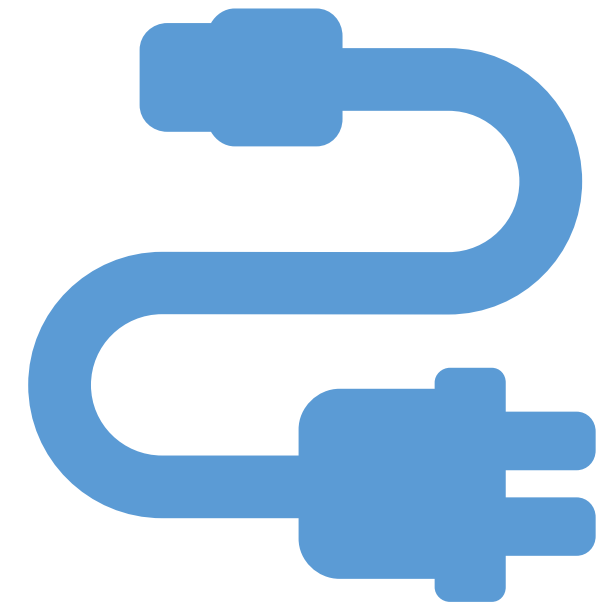
Content

- **Product Introduction**
- **Product Installation**
- **FAQ**

Solve Pain Points



Traditional infrared sensors cannot detect stationary human bodies



Wired sensors require electrical wiring, limiting installation options and affecting aesthetics



Millimeter-wave sensors are complicated to set up.



Lack of Matter and third-party platform support.

Presence Multi-Sensor FP300 Overview

Presence Multi-Sensor FP300 is a pioneering battery presence sensor with AI-powered dual PIR and mmWave detection and Thread/Zigbee support. Easy to install, it includes light, temperature, and humidity sensors, enhancing control, efficiency, comfort, and security in smart homes.



Presence Multi-Sensor FP300
5 Ways to Sense, Infinite Ways to Automate.

Selling Points

Dual PIR and mmWave Sensors

Able to detect stationary presence



Light, Temperature, and Humidity Sensors Included



AI-Powered Detection

for enhanced spacial awareness

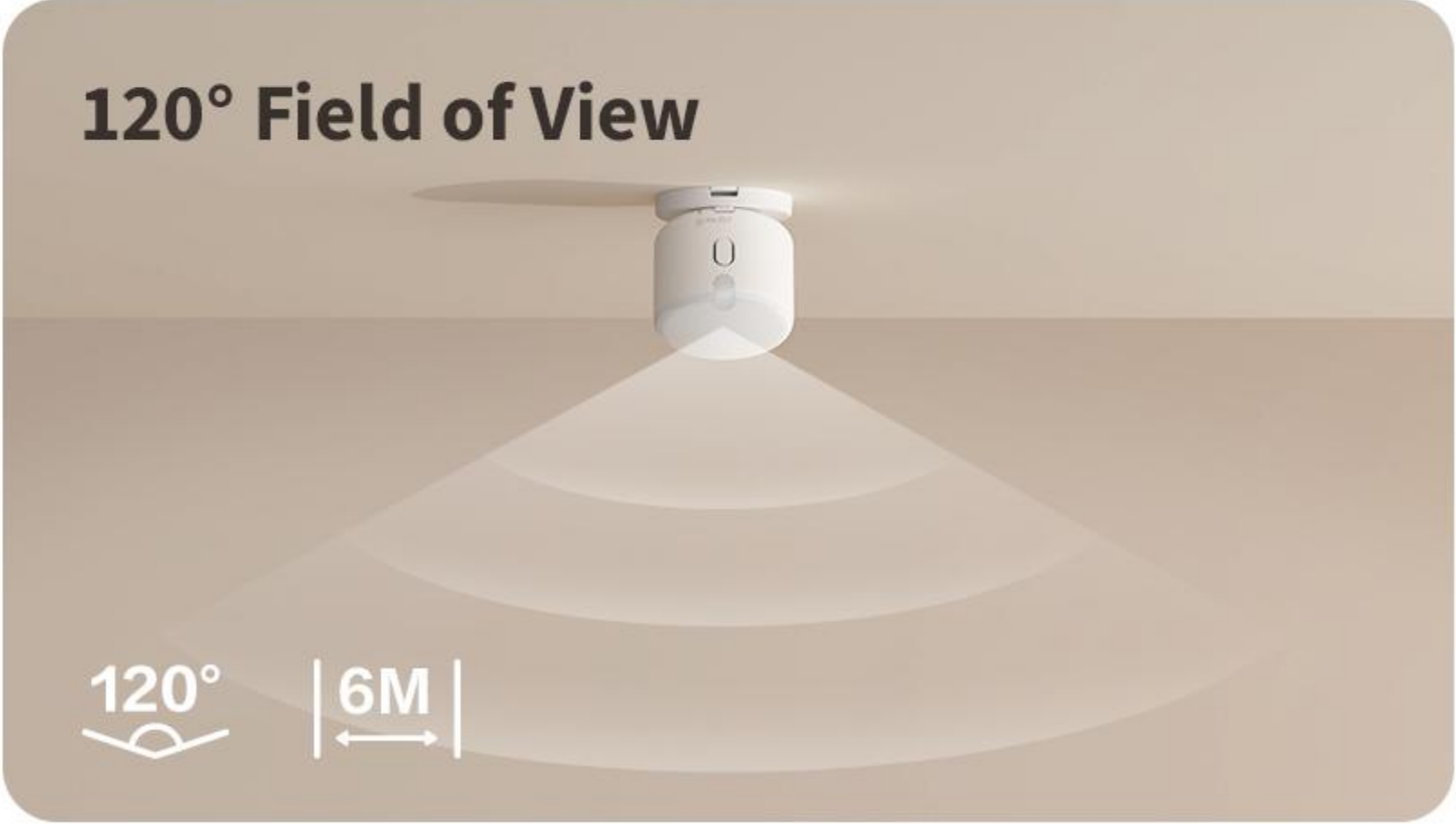


Battery Powered

Place it anywhere with no wiring required



120° Field of View



Zigbee & Thread Protocol Support



Dual PIR and mmWave Sensors for Precise Presence Detection

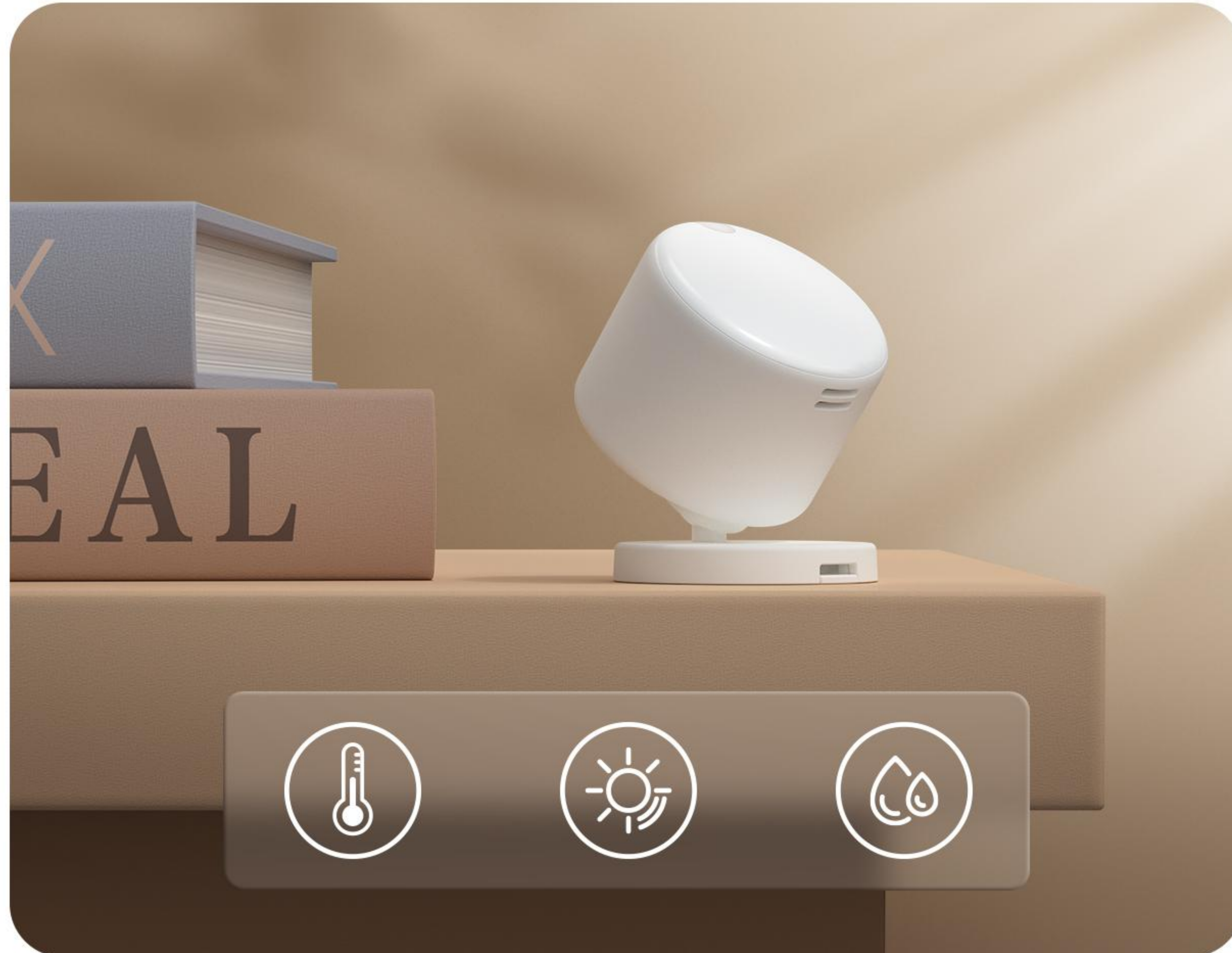
Dual PIR and mmWave Sensors for Precise Presence Detection

The FP300 smart home sensor uses PIR and 60 GHz mmWave radar to detect both motion and stationary presence with high precision, minimizing false absence reports.

It offers a 120° field of view with a maximum detection range of 6m, comprehensively covering whichever area it's installed in.



Light, Temperature, and Humidity Sensor for Home Comfort



Light, Temperature, and Humidity Sensor for Home Comfort

Apart from presence detection, FP300 comes with

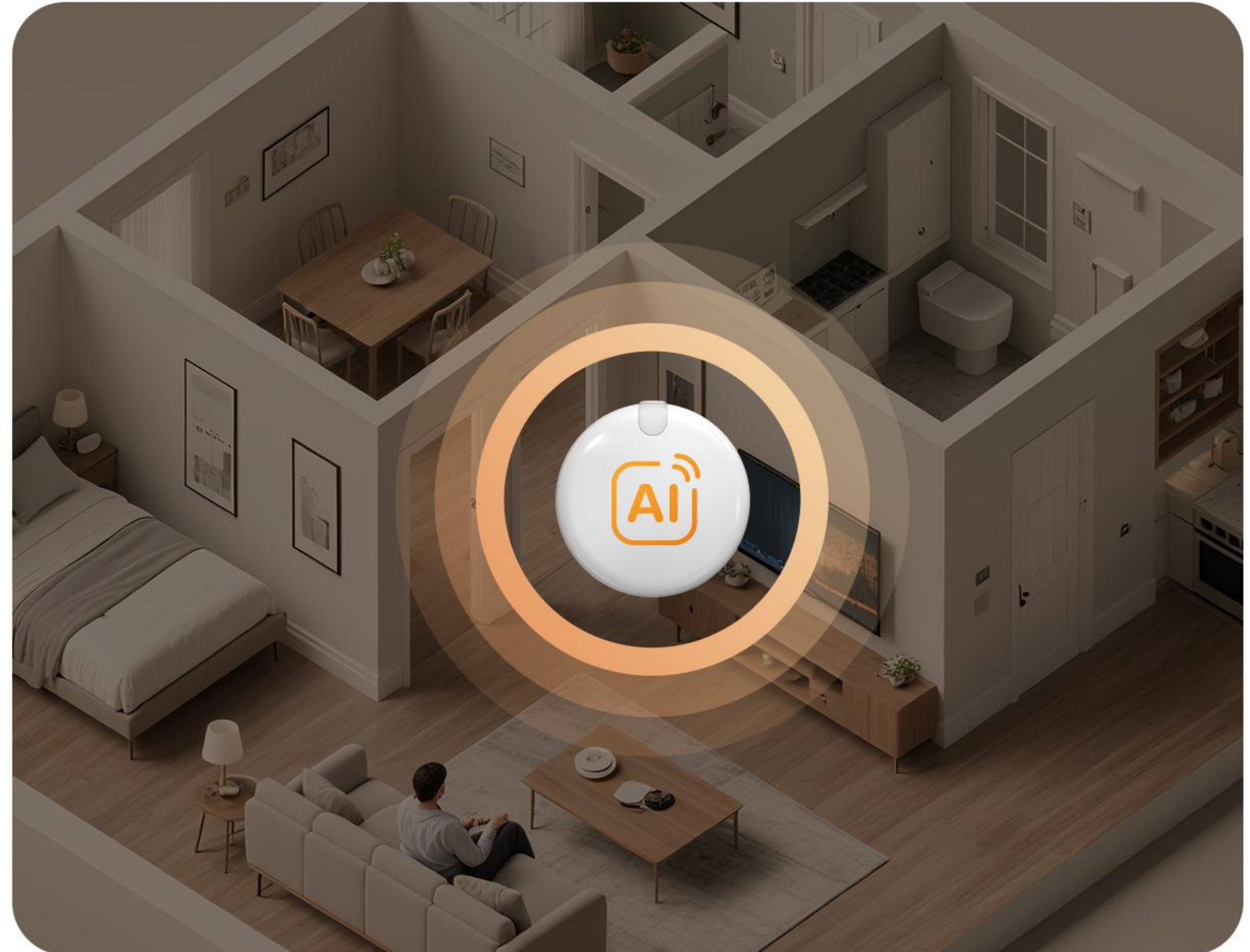
- A temperature sensor that ensures your climate control is always optimized for comfort and efficiency.
- An ambient light sensor for smart control of lights.
- And a humidity sensor to monitor and maintain indoor humidity levels.

AI-Powered Detection

AI-Powered Detection

Built with advanced AI, our presence sensor learns, adapts, and makes distinctions to provide the most accurate presence detection available.

- The sensor learns and automatically adjusts its detection sensitivity to suit your environment.
- Through continuous AI learning, it builds a deep understanding of your space, filtering out background noise and noticing subtle changes.



Battery-Powered



Battery-Powered. Built to Last.

The FP300 sensor is powered by two replaceable CR2450 batteries, providing reliable performance for up to 3 years in Zigbee mode and up to 2 years in Thread mode*, eliminating the hassle of constant charging.

You can also disable certain sensors** depending on specific detection needs, further extending battery life.

*The battery life data is based on tests conducted by the Aqara Laboratory. Actual battery life may vary based on device settings, connected ecosystems, and other factors.

**Zigbee mode and an Aqara hub are required to achieve this functionality.

Dual-Protocol Support

Zigbee & Thread Dual-Protocol Support

The FP300 supports both Zigbee with a compatible Aqara hub and Thread with a Thread border router.



Thread Mode

Can integrate with multiple platforms through the Matter framework, including Apple Home, Google Home, Alexa, Home Assistant, SmartThings, Homey, and more.



Zigbee Mode

Using the Zigbee protocol, you can also utilize Matter and enjoy more exclusive features in the Aqara Home App, as explained below

Exclusive Features under the Zigbee Protocol

Exclusive Features under the Zigbee Protocol

The FP300 offers extensive customizable settings through the Aqara Home app on Zigbee mode:

- Detection mode and range adjusting
- Enable/disable 5 independent sensors
- Temperature and Humidity sensor sampling/reporting frequency adjusting
- Absence delay timer



Flexible & Wire-Free Placement

Flexible & Wire-Free Placement



On the wall



On the ceiling



In the corner



On magnetic surfaces

Automations

Unlock Advanced Automations

By integrating the FP300 with your existing devices, the presence, light, and temperature data collected by the FP300 optimize your smart home automations. Combining these sensors unlocks even more automation and scene possibilities.



Adaptive Lighting Control

IF presence is detected and illuminance is under 400 lux
THEN turn on the desk lamp



Energy-Efficient Cooling

IF presence is detected and the temperature is over 28°C
THEN turn on air-conditioning cooling mode

Specification

Category	Details
Core Functions	Millimeter Wave / Infrared Dual Presence Detection + Illuminance Detection + Temperature and Humidity Detection
Wireless connections	Thread/Zigbee, Bluetooth
Detection Range	Maximum distance: 6 meters, 120° Field of View (FOV)
Power Supply	Powered by 2 × CR2450 button batteries, 3.0V DC
Battery Life	Zigbee: 3 years, Matter: 2 years (based on Aqara lab test results. The actual usage may vary depending on specific environmental conditions such as the number of sensors activated, sampling cycle, reporting method, radar detection method, and the number of daily triggers)
Supported Platforms	All platforms. AIOT, Matter, Apple Home, Alexa, Google, etc.
Installation Method	Flexible installation: supports ceiling, wall, or corner mounting; includes bracket
Dimensions	42 × 42 × 50 mm (1.65 × 1.65 × 1.97 in.)
Color	White
Material	PC + ABS
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Operating Humidity	0 ~ 95% RH, no condensation
Product Accessories	Online Version: Presence Multi-Sensor FP300 × 1, Sticker × 1, User Manual × 1
	Offline Version: Presence Multi-Sensor FP300 × 1, Sticker × 1, User Manual × 1, Metal Plate × 1, Screw Kit × 1

Matter VS Zigbee Functions

Feature	Matter (Thread)	Agara Home (Zigbee)
Human Presence Detection	✓ (Default dual existence mode)	✓ (Switchable between dual presence, radar and infrared modes)
Luminance Detection	✓	✓
Temperature & Humidity Detection	✓	✓
Vacancy Delay Setting		✓
Device Finding		
Battery Display		✓
Radar Sensitivity Configuration		✓
Detection Mode Settings		✓
AI Spatial Learning		✓ Auto-learning + Manual learning
Radar Detection Range		✓ Customizable range
Advanced Sensor Settings		✓ Switchable, customizable sampling period and reporting frequency

Indicator Lights and Buttons

Indicator lights	State	Device Status
	Blue light flashes once quickly	Single-click the device; the blue LED will flash once quickly.
	Blue light flashes twice quickly	When deleting the device via the app, the blue LED flashes twice for each deleted ecosystem(e.g., Apple Home, Google Home, Amazon Alexa). After the last ecosystem is removed, the device enters reset/pairing mode, and the LED switches to a breathing blue light.
	Blue light flashes three times quickly	Occurs after power-on, reboot, or factory reset, indicating normal power supply.
	Blue breathing light	Indicates the device is in broadcast mode. After 10 minutes, the light turns off, and the device enters deep sleep mode.
	Blue light flashes continuously	During device reset, the blue LED flashes rapidly until the button is released within 3 seconds. Continuous fast flashing indicates successful pairing.
	Blue light stays on for 1 second	Indicates successful device addition.
Buttons	Single press (Reset button)	Checks Zigbee gateway connection and validates its effective range (only triggered when bound to a Zigbee gateway).
	Long press (5+ seconds)	Resets the device and activates pairing mode.
	Press 10 times quickly	Restores factory settings.

Device Reset

Only the network settings will be reset and the device will re-enter pairing mode. Local data will **not** be deleted.

Steps:

- 1.Ensure the device is powered on.
- 2.Press and hold the reset button for **5 seconds**.
- 3.Release the button when the indicator light starts **flashing rapidly**.
- 4.The device will reset and enter **Bluetooth broadcasting mode**.

Factory Reset

This will reset the network settings and **delete all local and cloud data**.

Steps:

- Ensure the device is powered on.
- Quickly press the reset button **10 times**.
- The device will enter **factory reset mode**.

More Usage Tips

1. Install Facing the Front of the Body:

For optimal detection of subtle human movements like breathing, it is recommended to install the device facing the front of the human body.

2. Adjust Detection Range as Needed:

The device can detect up to **6 meters**. To improve detection accuracy, configure the detection range according to actual needs and exclude unnecessary areas.

3. Avoid Frequent Lighting Changes:

The device quickly detects transitions from presence to absence. To avoid frequent on/off lighting and enhance user experience, it's recommended to set a "**No One Detected Delay**" or use automation triggers like "**No One Detected for a Certain Duration**" instead of simply "No One".

4. Fix False Positives with AI Background Learning (Zigbee Mode):

Suppose the device mistakenly detects presence when no one is around. In that case, you can use the **AI Background Learning** feature to quickly recalibrate and return to a “no one” state (only available in Zigbee mode).

5. Avoid Interference Sources:

The device includes AI capabilities for identifying interference sources and continuously learning its environment, improving accuracy over time. However, to maximize detection reliability, avoid installing it near **air conditioner vents, air purifiers, or fans**.

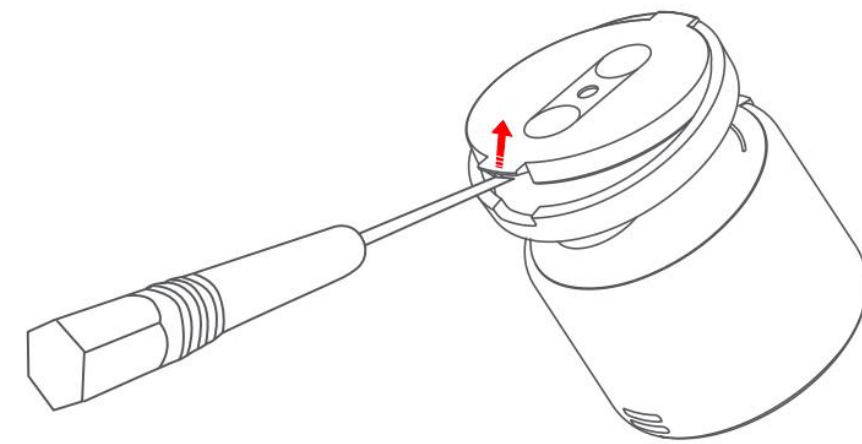
Product Comparison

Model	Presence Sensor FP1E	Presence Sensor FP2	Presence Multi-Sensor FP300
Product Tier	Entry-level mmWave presence sensor	High-performance multi-scene sensor	Low-power, all-in-one dual-presence sensor
Key Features	Presence detection, static/dynamic detection, AI human recognition	Presence detection, target tracking, sleep monitoring, fall detection, light sensing, AI human recognition	Presence detection, temp/humidity sensing, light sensing
Environmental Sensors	None	Light sensor	Temp/humidity, light
Detection Range	Static: 6m, Dynamic: 6m	6m × 8m	Static: 6m, Dynamic: 6m
Detection Angle	120° tilt, 180° horizontal	120° horizontal, 40° tilt	Omnidirectional 120°
Protocol	Zigbee 3.0	Wi-Fi	Thread, Zigbee 3.0
Gateway Support	Zigbee hub	No gateway hub	Matter hub or Zigbee hub
Platform Support	Aqara, Apple Home, Matter over Bridge, Google, Alexa, Samsung, etc.	Aqara, Apple Home, Google, Alexa, Samsung, etc.	Aqara, Matter, Apple Home, Google, Alexa, Samsung, etc.
Use cases	Ideal for use cases where only presence detection is needed, with no need for zone division, but high accuracy in presence detection is required.	For scenarios that require higher positioning accuracy, more zone customization, a wider detection range, or advanced features such as sleep monitoring, fall detection, or people counting, consider using a more capable device or system.	Detects human presence in spaces without a power supply.
Target Users	Budget-conscious households	Premium households, healthcare, commercial	Budget-conscious households

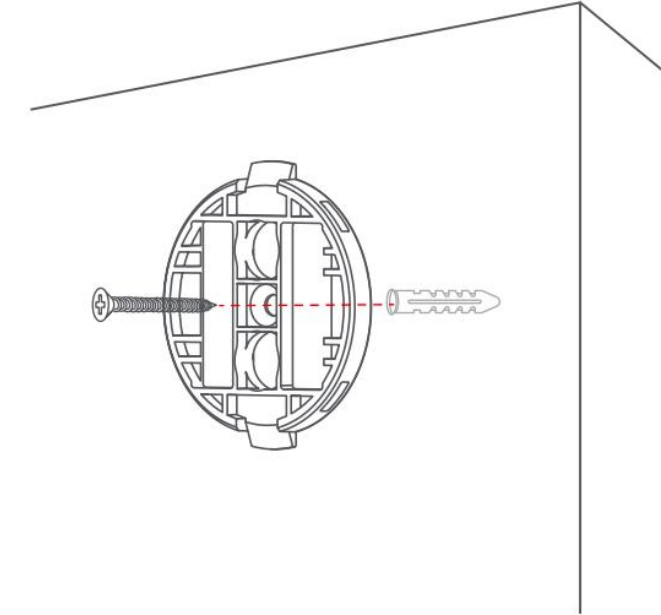
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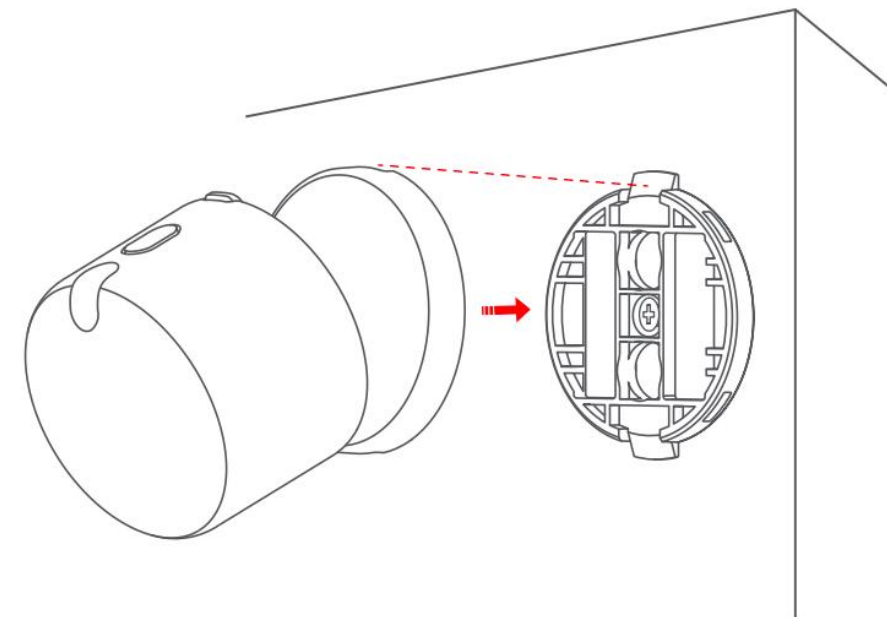
Installation



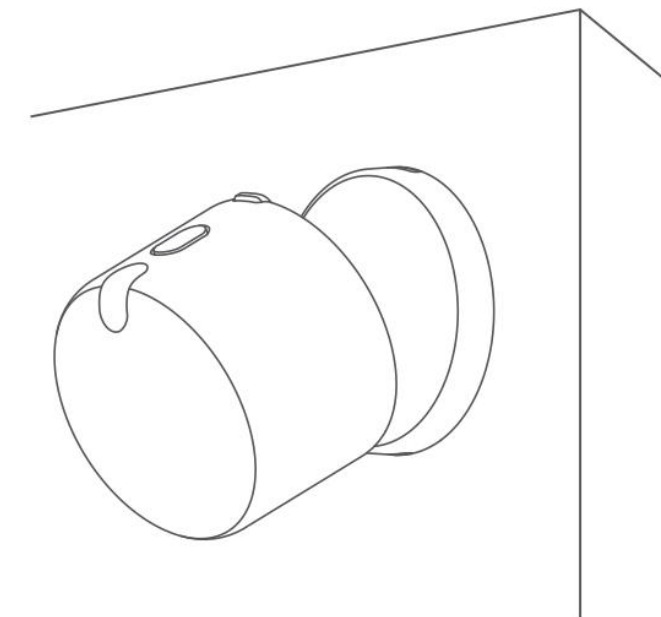
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2



3



4

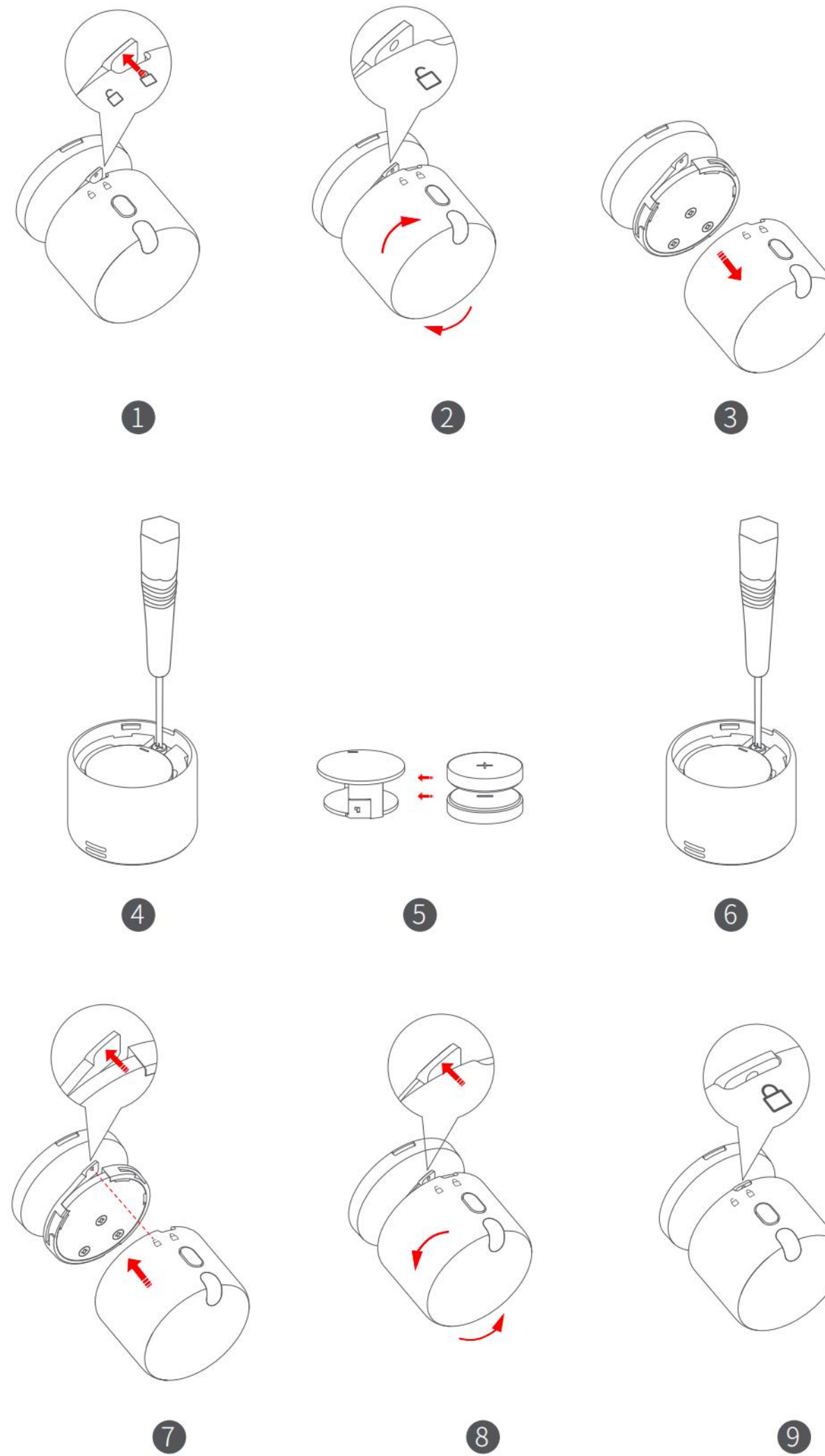
* 螺丝刀需自备，螺丝安装包为选配。

Installation Height Recommendation

If the installation height is **below 2 meters**, the device can be mounted using **adhesive backing** or **magnetic attachment**.

If the installation height is **above 2 meters**, **screw mounting** is required for secure installation.

Installation



Screwdrivers need to be brought by yourself. The screw installation package is optional.

Content

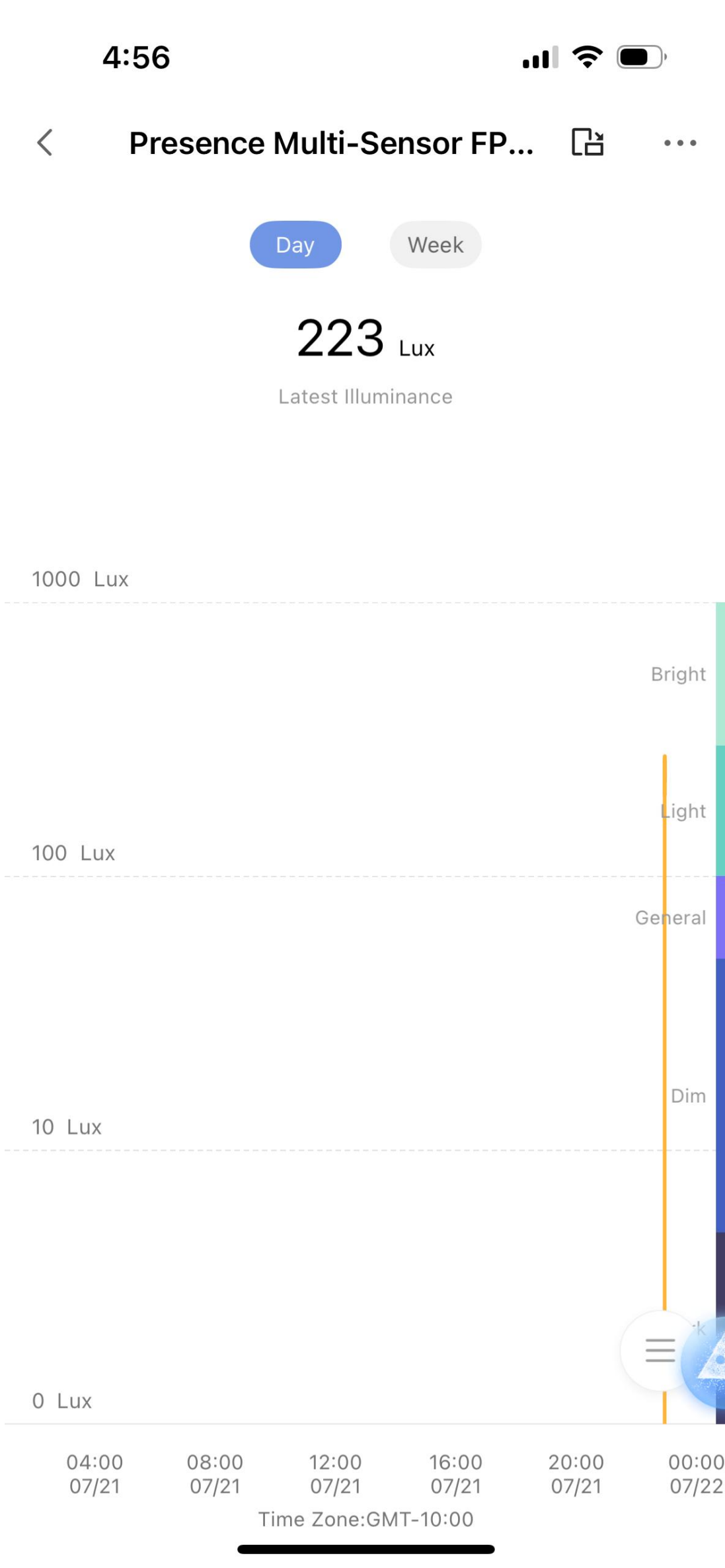
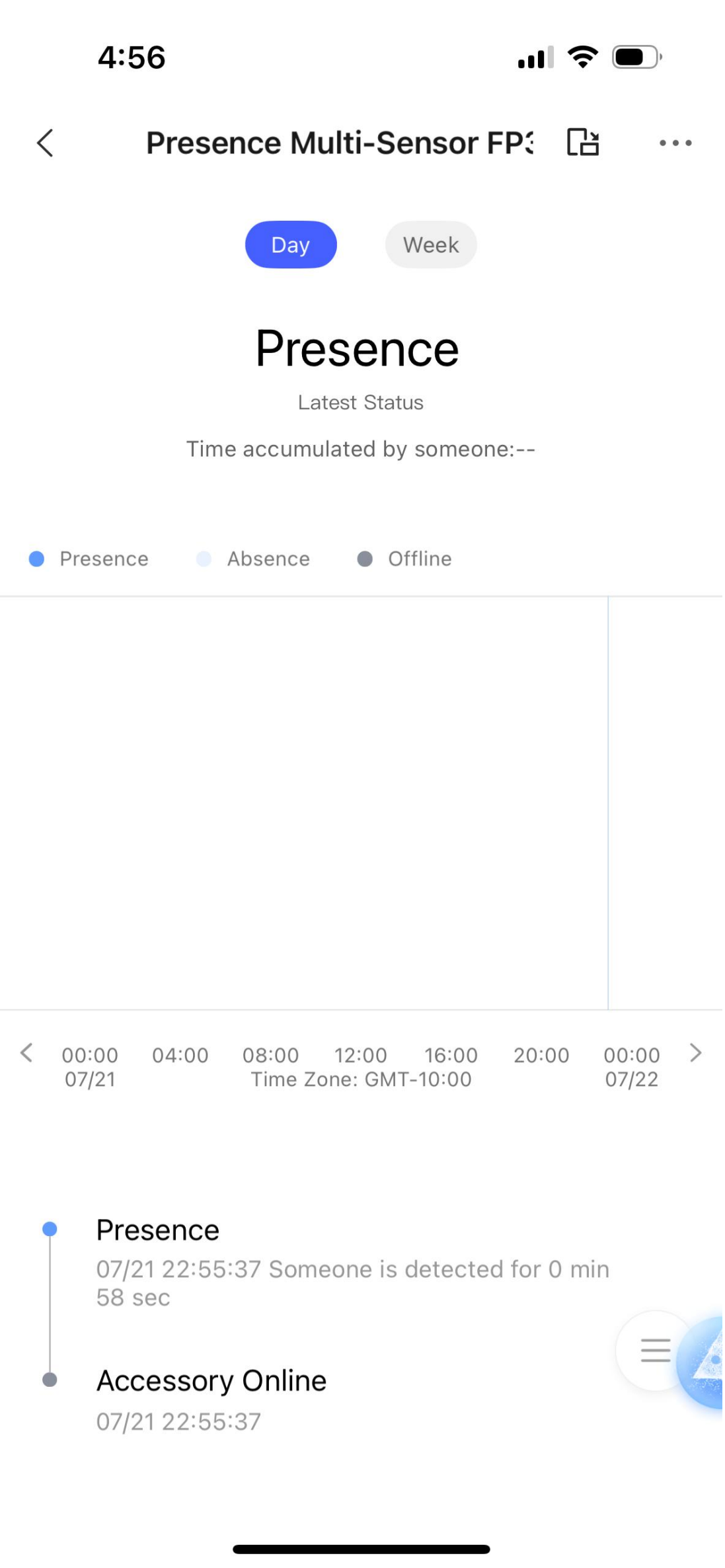
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Settings

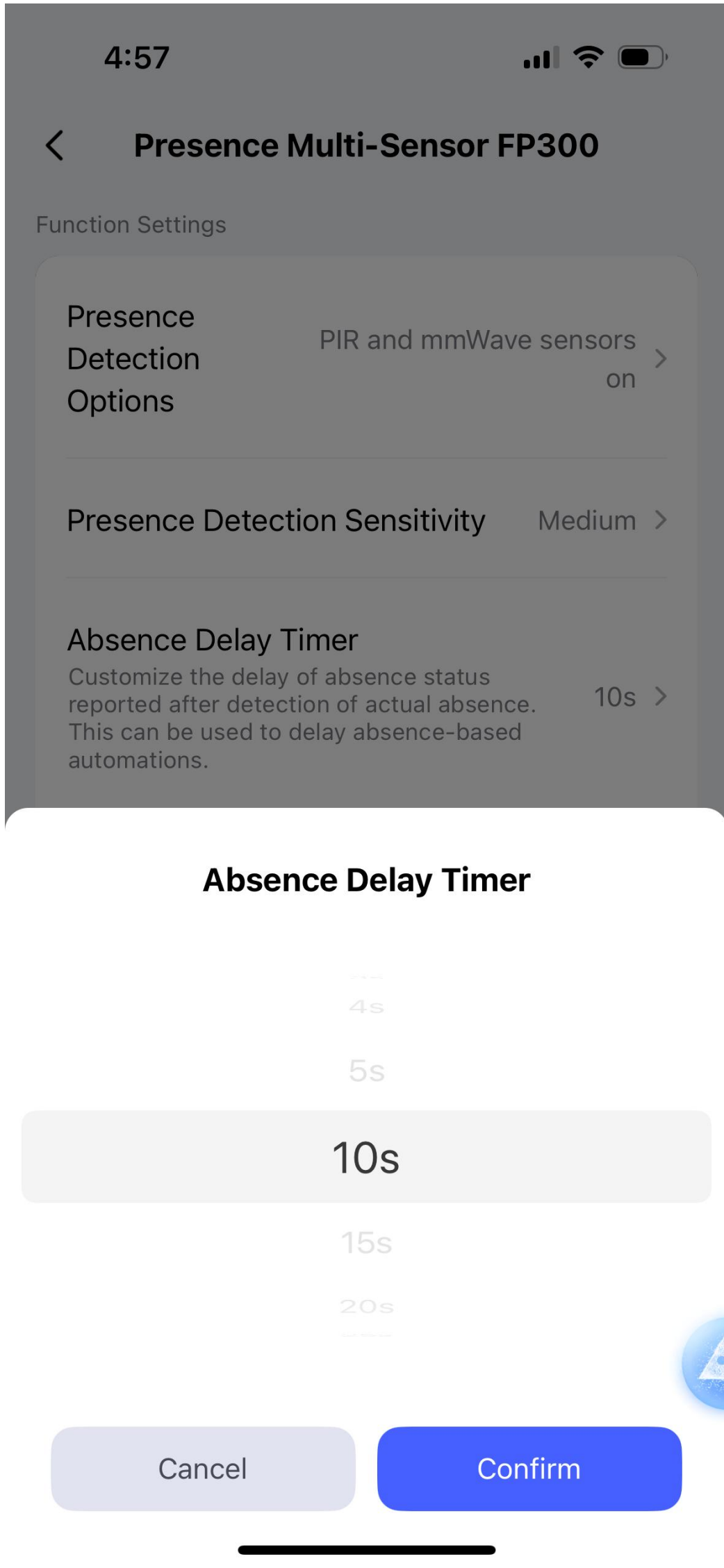
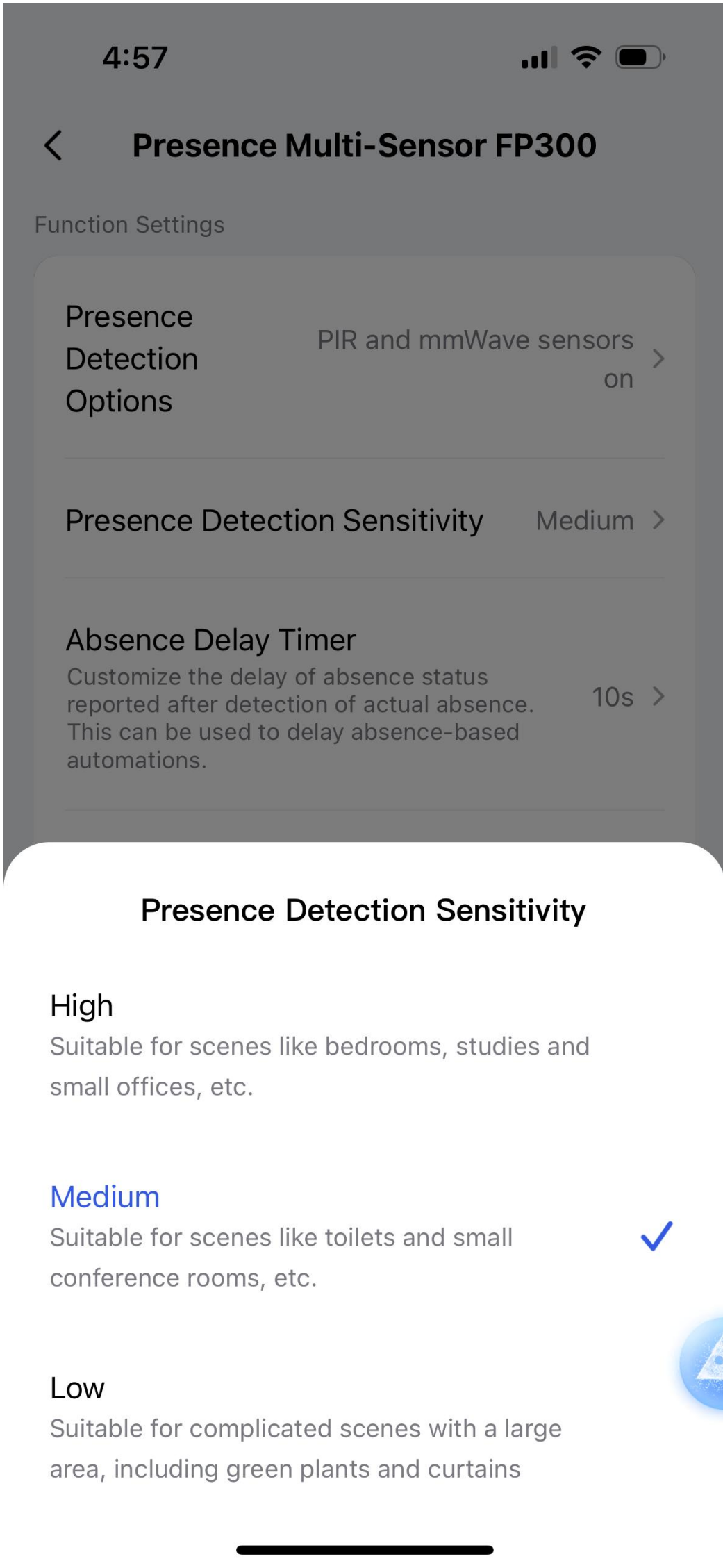
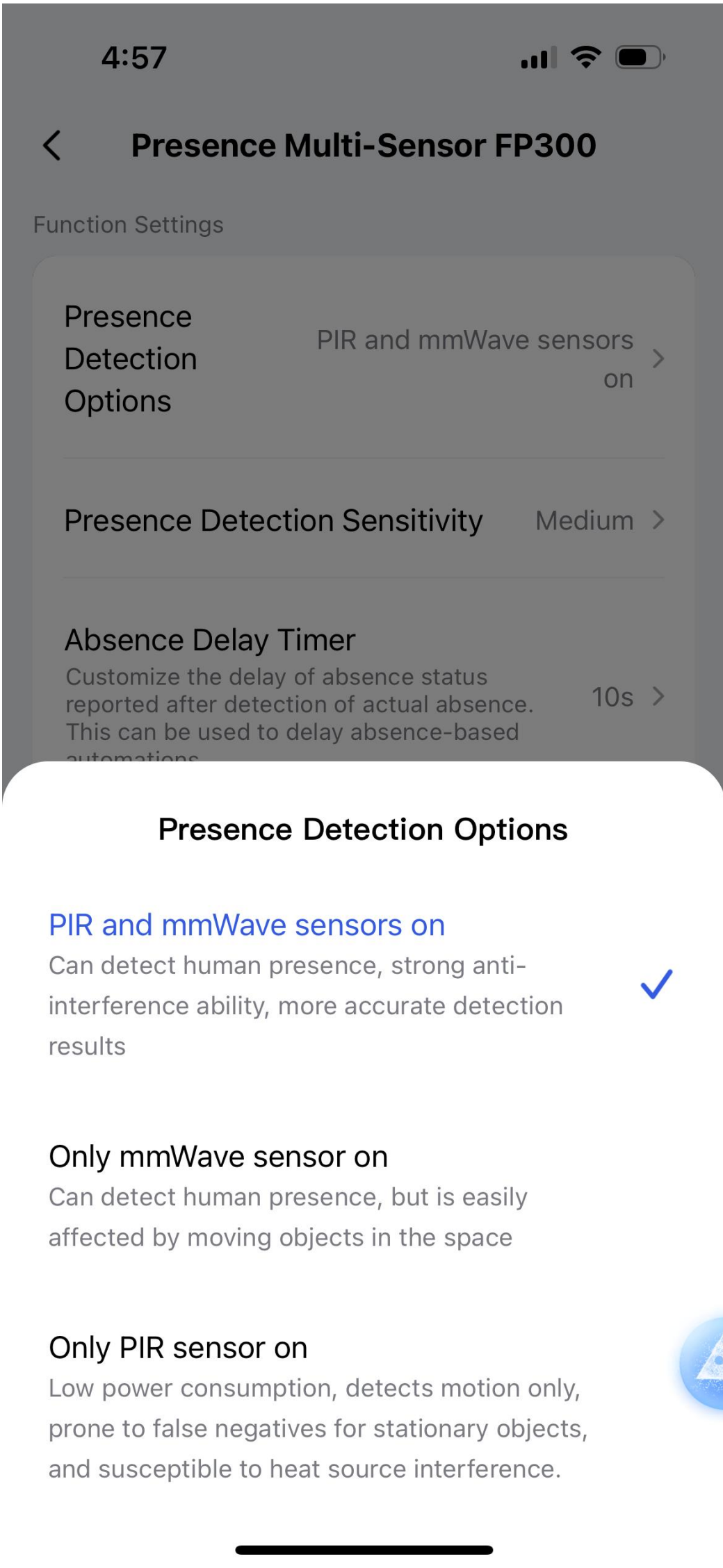
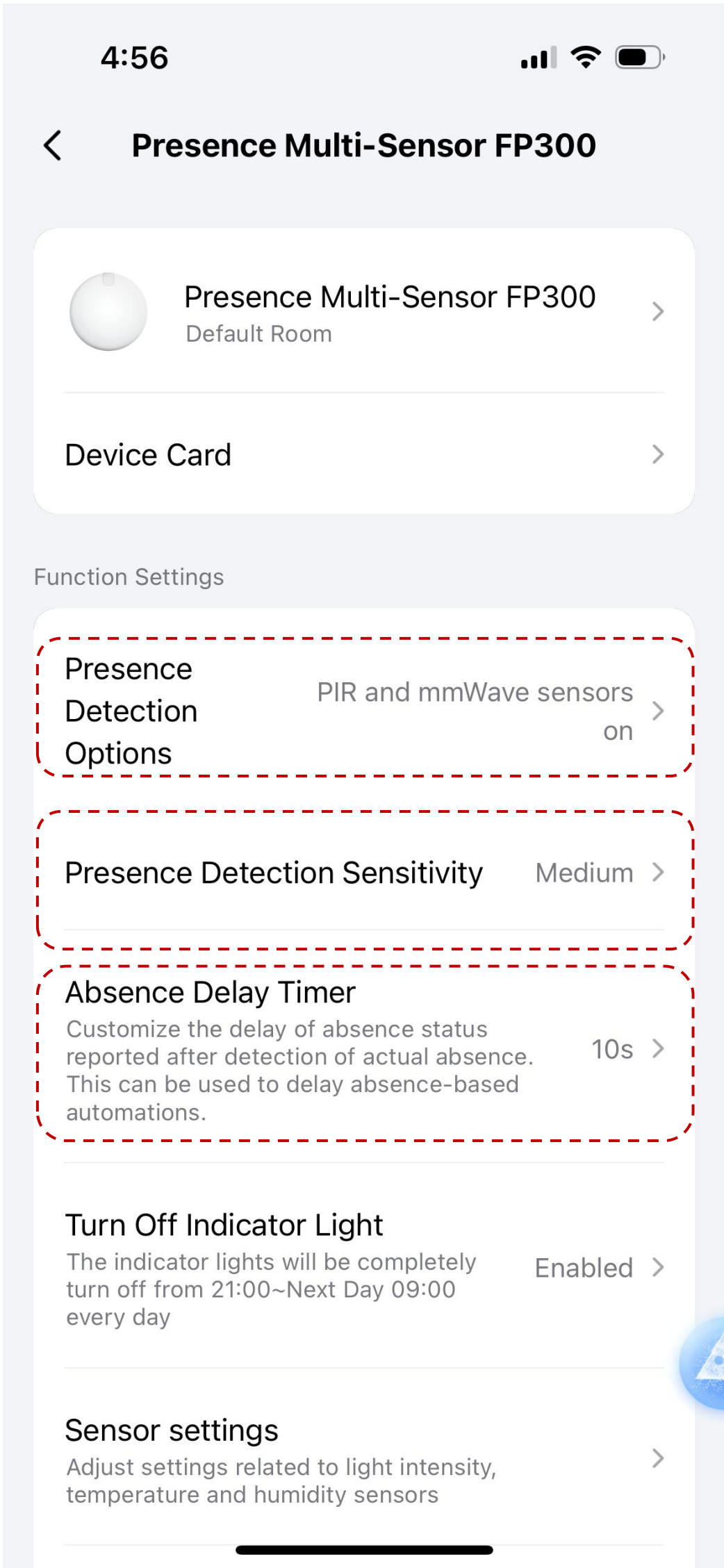
Human presence
detection



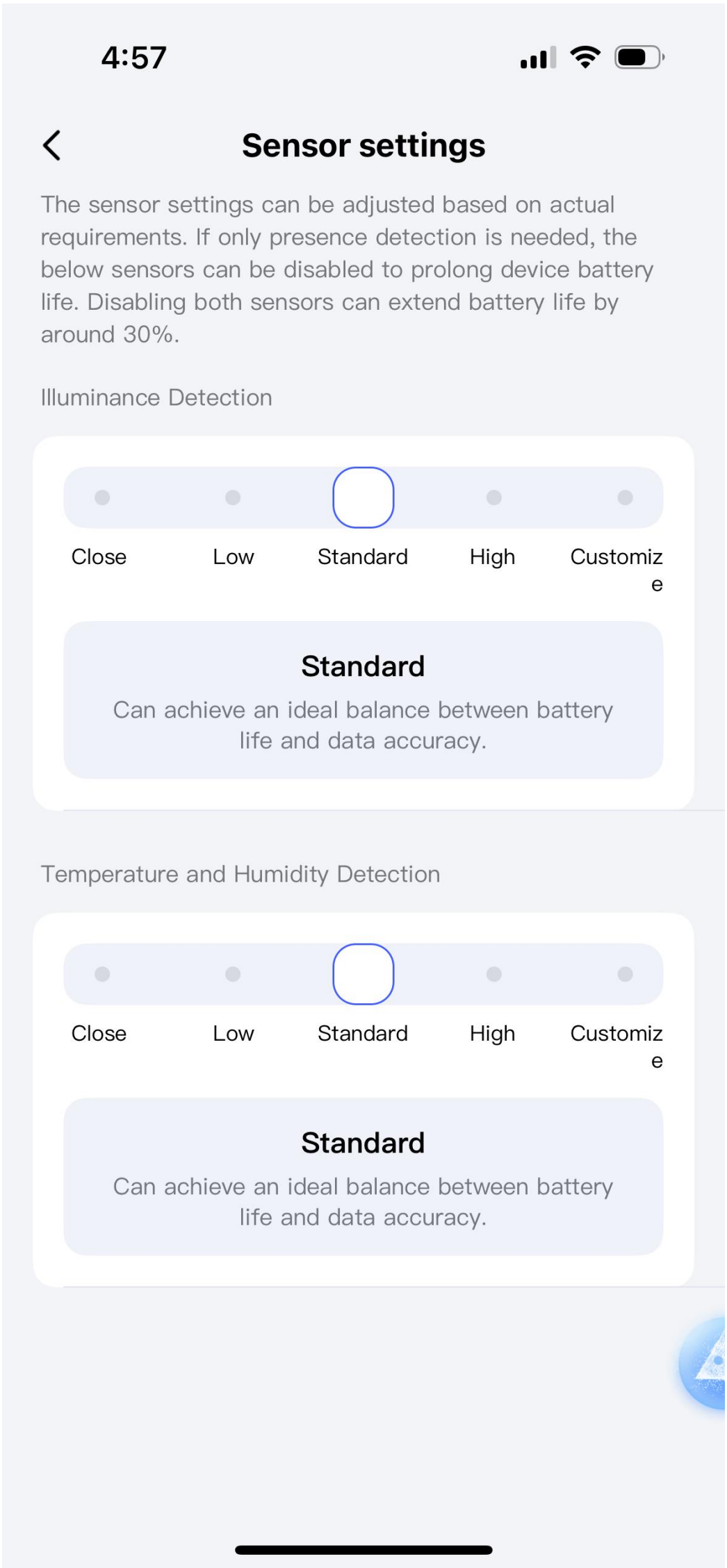
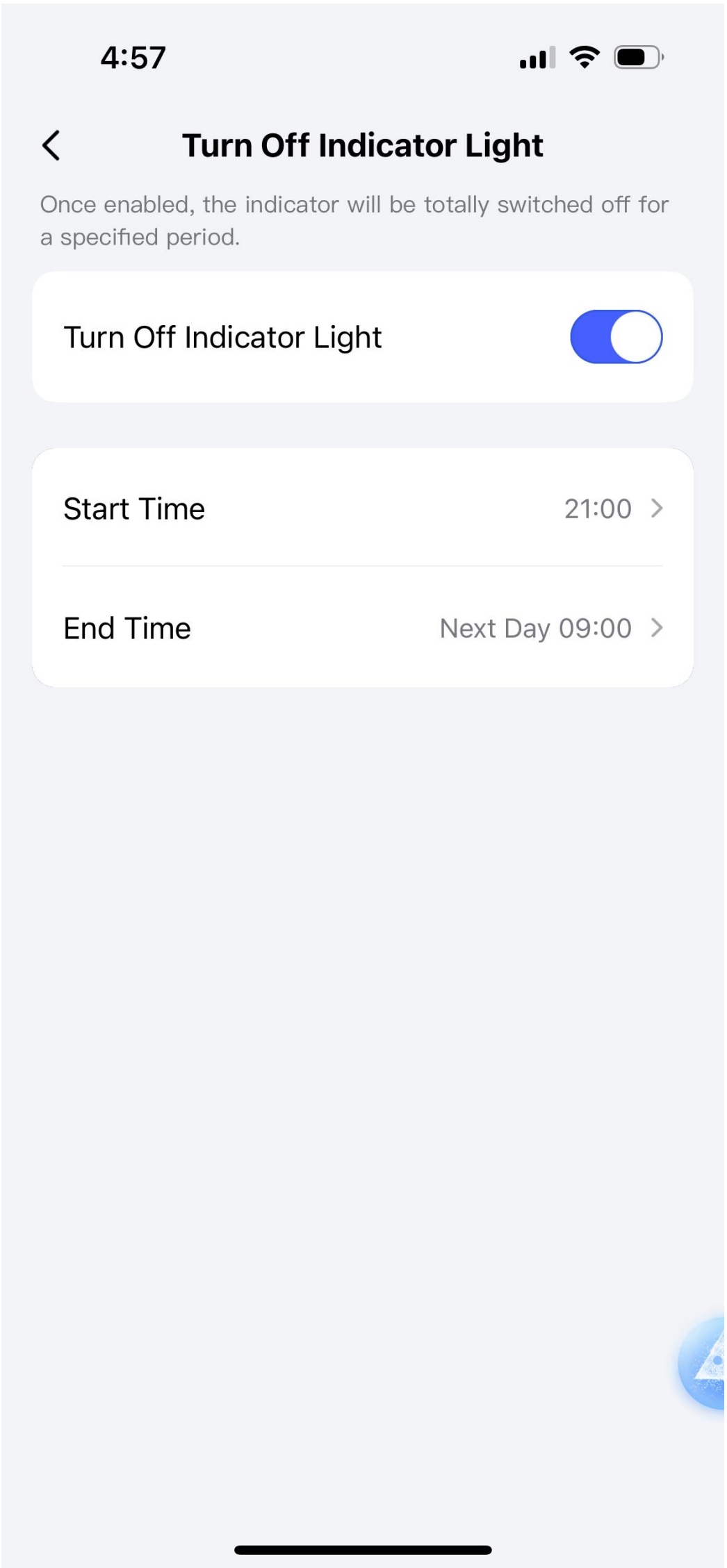
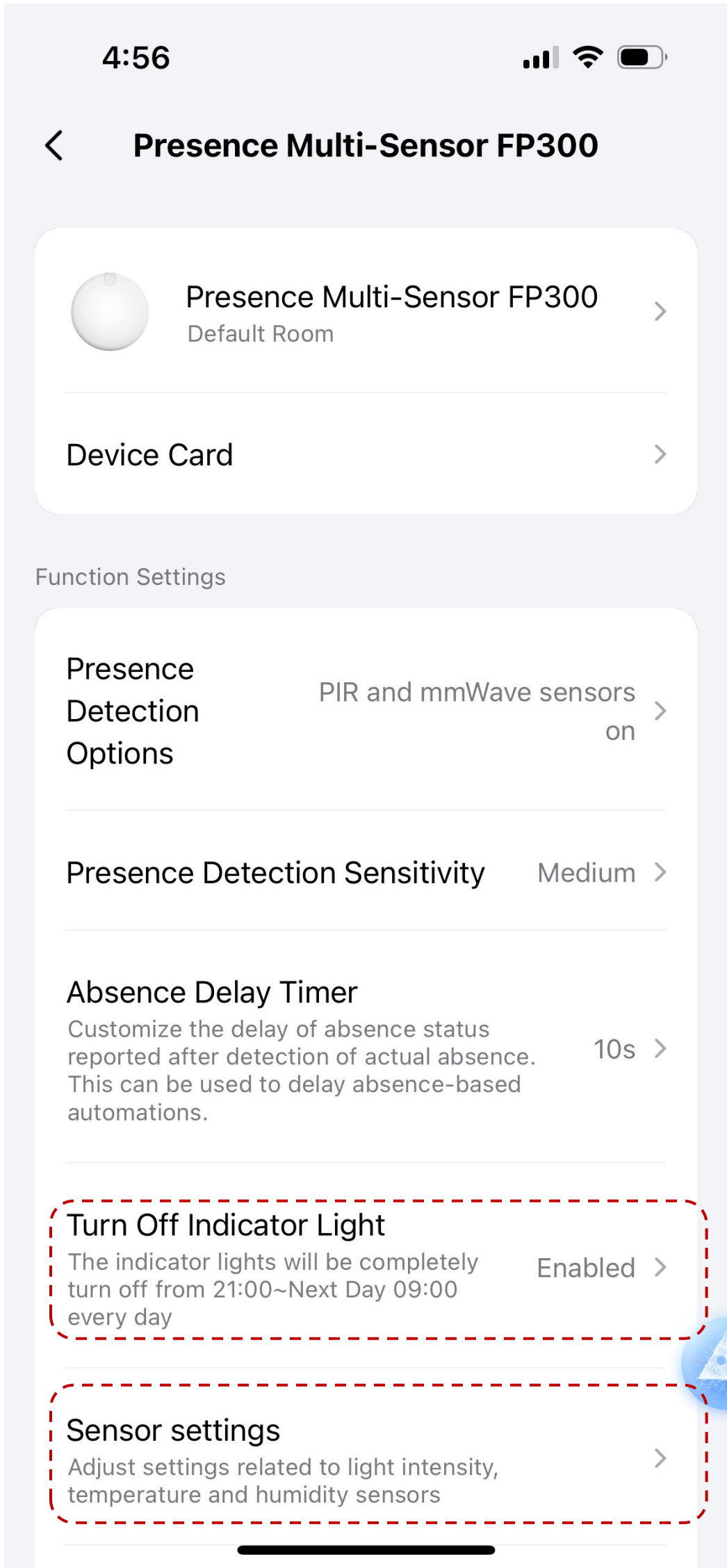
Check presence
detection logs



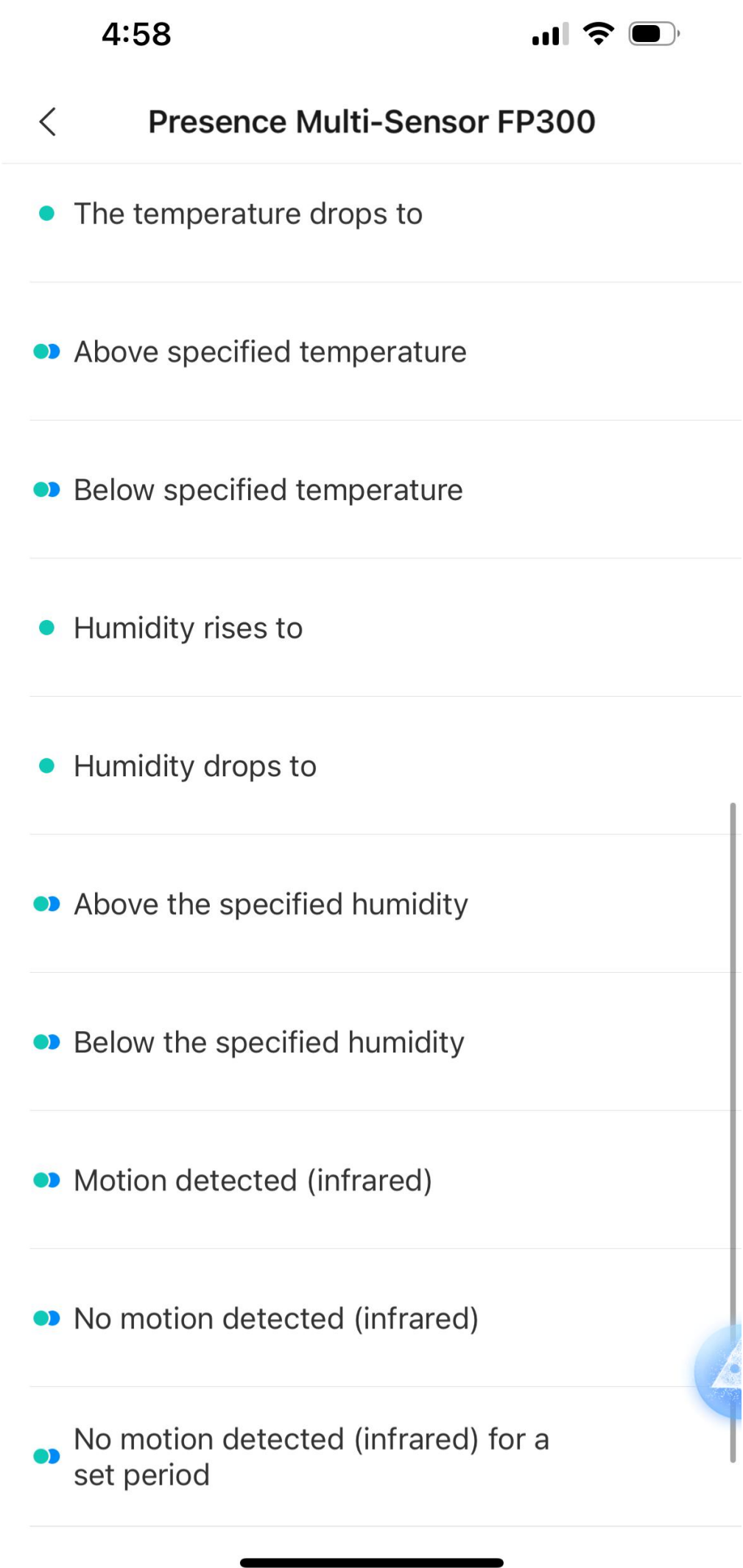
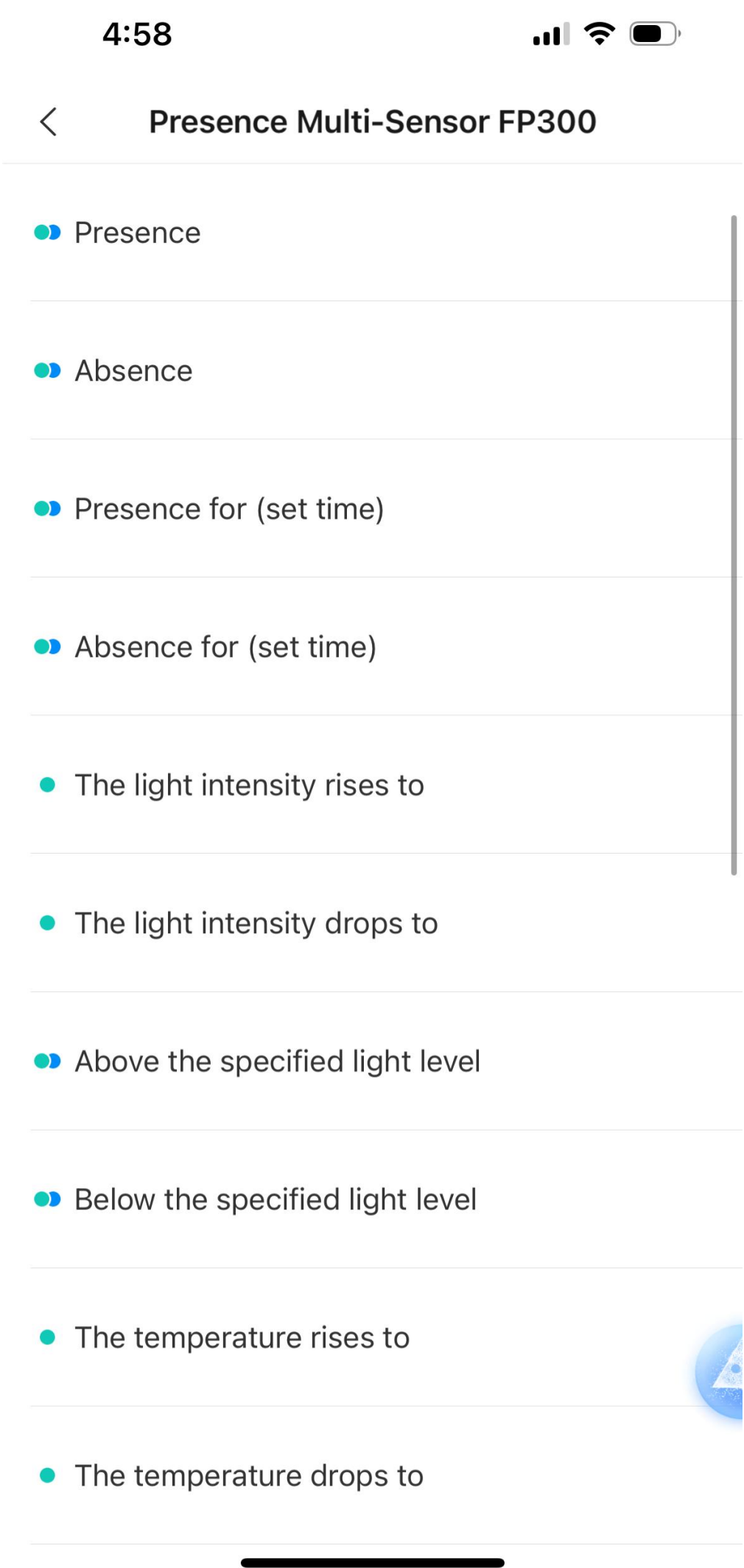
Settings



Settings



IF Conditions



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FAQ

Question	Answer
What can the FP300 sensor detect?	It accurately detects human presence (including stationary individuals), as well as temperature, humidity, and ambient light levels.
What wireless protocols does the device support?	Supports both Thread and Zigbee protocols, compatible with Aqara Home or third-party Matter-enabled ecosystems.
What installation options are available?	Can be wall-mounted, placed on a desk, or ceiling-installed, it supports adhesive pads, magnets, and expansion screws. For heights over 2 meters, it is recommended to fix them with screws.
Is there a recommended orientation for installation?	Face the front of the device toward the monitored area to improve detection of subtle movements (e.g., breathing) and accuracy.
Are there environmental considerations for installation?	Avoid placing near air vents, fans, or air purifiers. Allow time for the device to learn its environment post-installation; interference may cause false triggers.
How do I connect via Matter?	In the Aqara Home app, tap "+" on the homepage and follow prompts. For third-party Matter apps, select "Add Device" and scan the device’s Matter QR code.
How do I connect via Zigbee?	In the Aqara Home app, tap "+", select the device, switch to Zigbee mode, download firmware, and select the gateway to complete the addition.
What are the operating temperature and humidity ranges?	Temperature: -10°C to 50°C (-14°F to 122°F); Humidity: 0–95% RH (non-condensing).
How do I update firmware?	After setup, check for updates in the app’s device settings.
How to fix false "occupied" triggers?	In Zigbee mode, use the AI Environment Learning feature to recalibrate the sensor to an unoccupied state.

THANK YOU