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Aqara WS-USC04

Aqara Smart Light Switch (With Neutral, Double Rocker) Instruction Manual

Model: WS-USC04

1. INTRODUCTION

The Aqara Smart Light Switch (With Neutral, Double Rocker) is a Zigbee-enabled wall switch designed to integrate seamlessly into your smart home ecosystem. It allows for remote control, scheduling, and automation of your lighting when connected to an Aqara Hub. This device is compatible with Apple HomeKit, Google Assistant, and Amazon Alexa, offering convenient voice control options. This manual provides essential information for safe installation, setup, operation, and maintenance of your smart light switch.



Image 1.1: The Aqara Smart Light Switch (With Neutral, Double Rocker) shown with its retail packaging. This image highlights the product's design and its compatibility with various smart home platforms.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all safety precautions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Hazard:** Installation requires handling 120V AC wiring. Always turn off power at the circuit breaker before installation. If you are unsure about electrical wiring, consult a qualified electrician.
- This product is designed for indoor use only.
- Operating Temperature: 0°C to 40°C (32°F to 104°F).
- Operating Humidity: 0% to 95% RH, non-condensing.
- Maximum Load: 600 W/way (Incandescent), 200 W/way (CFL/LED), 1/4 HP. Do not exceed these ratings.
- The switch adopts a V-0 grade flame-retardant panel and includes a high-temperature detection feature that automatically turns off the power supply if an unsafe temperature limit is reached.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

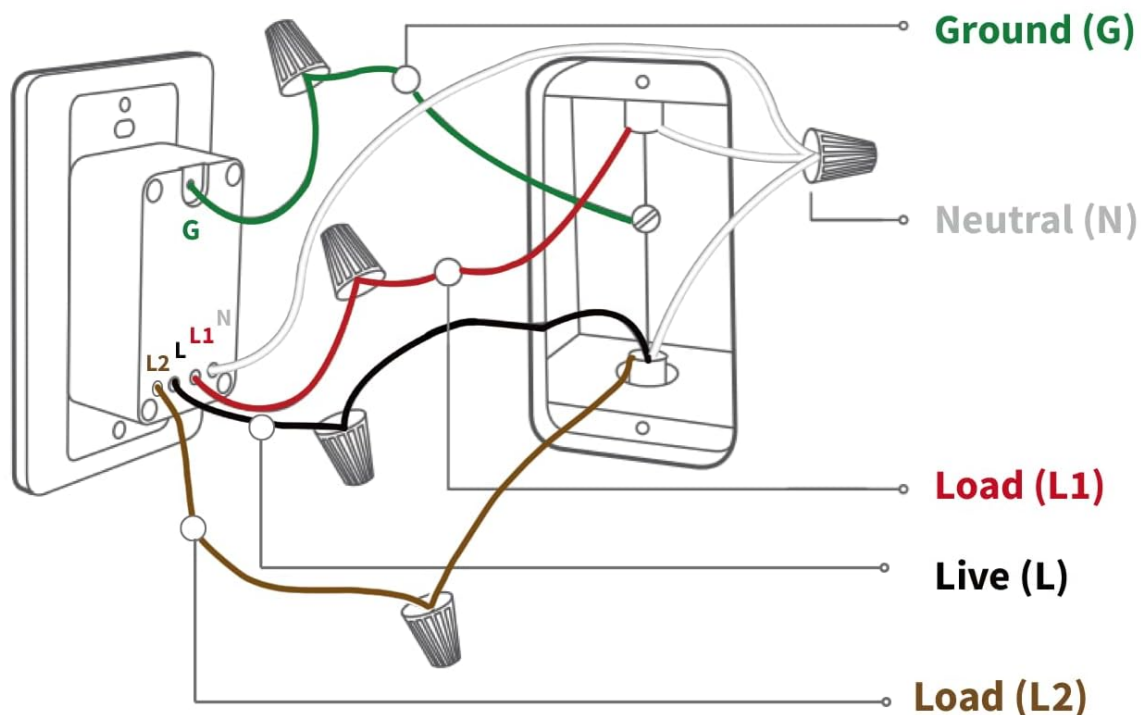
- Aqara Smart Light Switch (With Neutral, Double Rocker)
- Quick Start Guide
- Screws
- Wire Nuts

4. INSTALLATION

4.1. Pre-Installation Checklist

1. **Turn off Power:** Locate your circuit breaker and turn off the power to the switch you are replacing. Verify the power is off using a voltage tester.
2. **Identify Wires:** Remove the existing wall plate and switch. Identify the following wires: Live (L), Neutral (N), Load (L1, L2 for double rocker), and Ground (G). This Aqara switch requires a neutral wire.

How to distinguish "No Neutral" from "With Neutral"?
Turn off the circuit breaker, unscrew the wall switch and check the wiring behind it. If you have a white wire, most likely you have a Neutral (N). However, since wiring colors may vary, it is strongly advised to use an electroscope or multimeter and consult with a licensed electrician.



* In case of not connecting some wires, please isolate them using an isolating cap or tape.

Image 4.1: This diagram illustrates the correct wiring connections for the Aqara Smart Light Switch (With Neutral, Double Rocker). It shows connections for Ground (G), Neutral (N), Live (L), and two Load wires (L1, L2) for the double rocker functionality. Always ensure power is off before wiring. If you have a white wire, it is most likely a Neutral (N) wire. However, wiring colors may vary, so it is strongly advised to use an electrometer or multimeter and consult a licensed electrician if unsure.

4.2. Wiring Instructions

1. Connect the **Live (L)** wire from your wall box to the 'L' terminal on the Aqara switch.
2. Connect the **Neutral (N)** wire from your wall box to the 'N' terminal on the Aqara switch.
3. Connect the **Load 1 (L1)** wire (controlling the first light/fixture) from your wall box to the 'L1' terminal on the Aqara switch.
4. Connect the **Load 2 (L2)** wire (controlling the second light/fixture) from your wall box to the 'L2' terminal on the Aqara switch.
5. Connect the **Ground (G)** wire from your wall box to the 'G' terminal on the Aqara switch.
6. Use the provided wire nuts to secure any unused or existing wires, ensuring they are properly insulated.

4.3. Mounting the Switch

1. Carefully push the wired switch into the wall box.
2. Secure the switch to the wall box using the provided screws. Do not overtighten, as this can affect the rocker mechanism.
3. Attach the wall plate.
4. Restore power at the circuit breaker.

Single Pole Light Switch

(not 3-way switch compatible)



This product is only used to replace a single pole switch rather than a 3-way switch.

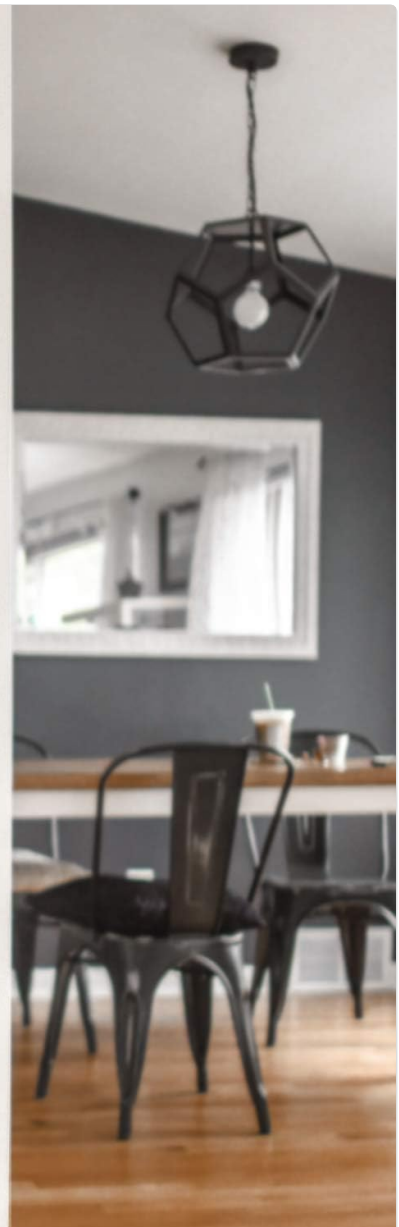


Image 4.2: This image clarifies that the Aqara Smart Light Switch is designed for single-pole light switch replacements and is not compatible with 3-way switch configurations.

5. SETUP

5.1. Aqara Hub Requirement

The Aqara Smart Light Switch requires an Aqara Hub (sold separately) to function as a smart device. The hub acts as the central controller for all your Aqara Zigbee devices and connects them to your home network and smart home platforms.

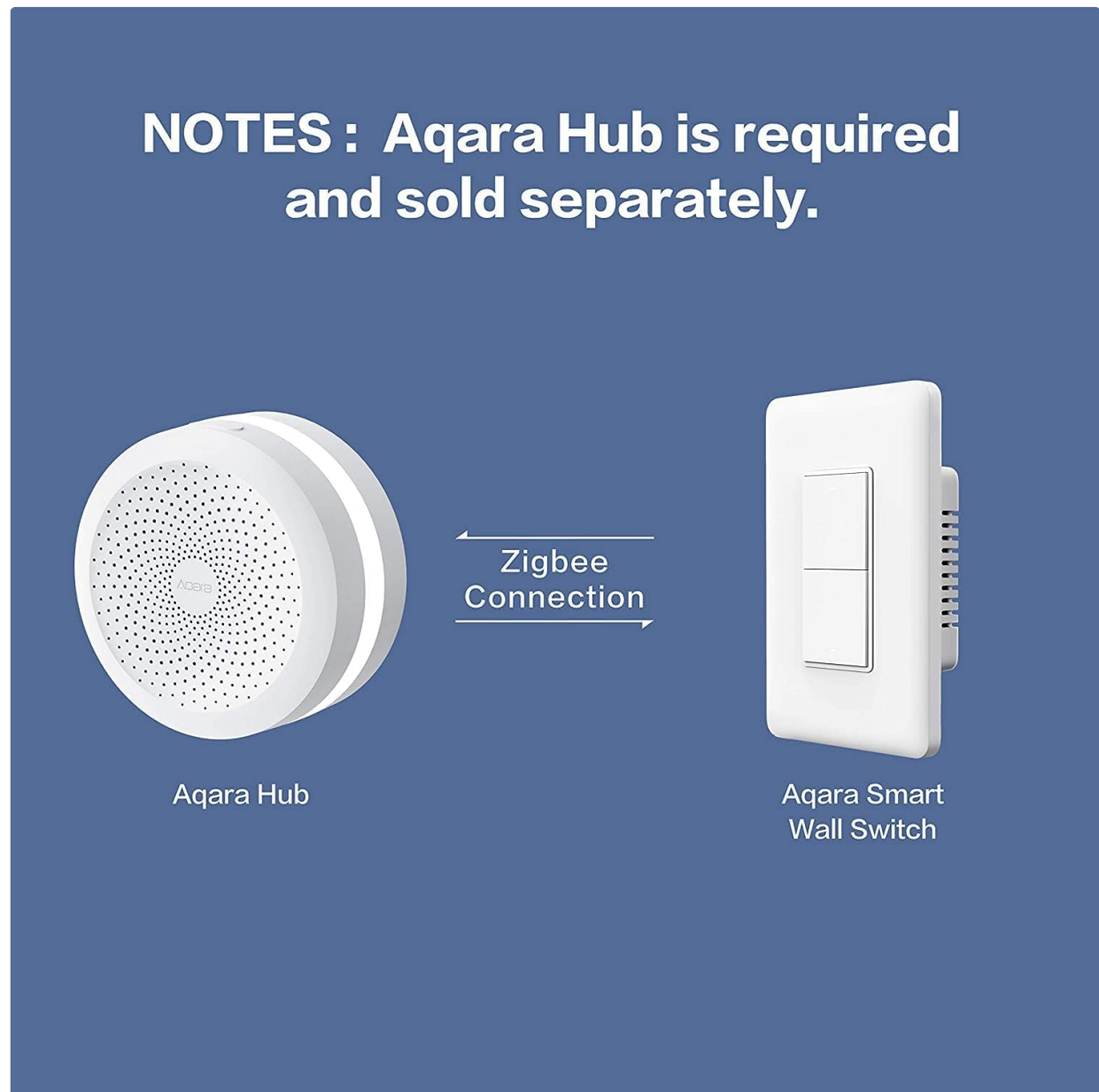


Image 5.1: This image shows the Aqara Hub connected to the Aqara Smart Wall Switch via Zigbee, illustrating the necessary hub for operation.

5.2. Pairing with Aqara Home App

1. Ensure your Aqara Hub is powered on and connected to your Wi-Fi network (2.4 GHz is required for most hubs).
2. Open the Aqara Home app on your smartphone.
3. Navigate to the 'Devices' tab and tap the '+' icon to add a new device.
4. Select the 'Smart Wall Switch (With Neutral)' from the list.
5. Follow the on-screen instructions to put the switch into pairing mode (usually by pressing and holding one of the rocker buttons for a few seconds until an indicator light flashes).
6. Once paired, you can assign the switch to a room and customize its settings within the app.

6. OPERATION

6.1. Manual Control

Press the upper or lower rocker button on the switch to manually turn the connected lights on or off.

6.2. Remote Control via Aqara Home App

Once paired with the Aqara Hub, you can control your lights remotely using the Aqara Home app from anywhere with an internet connection.

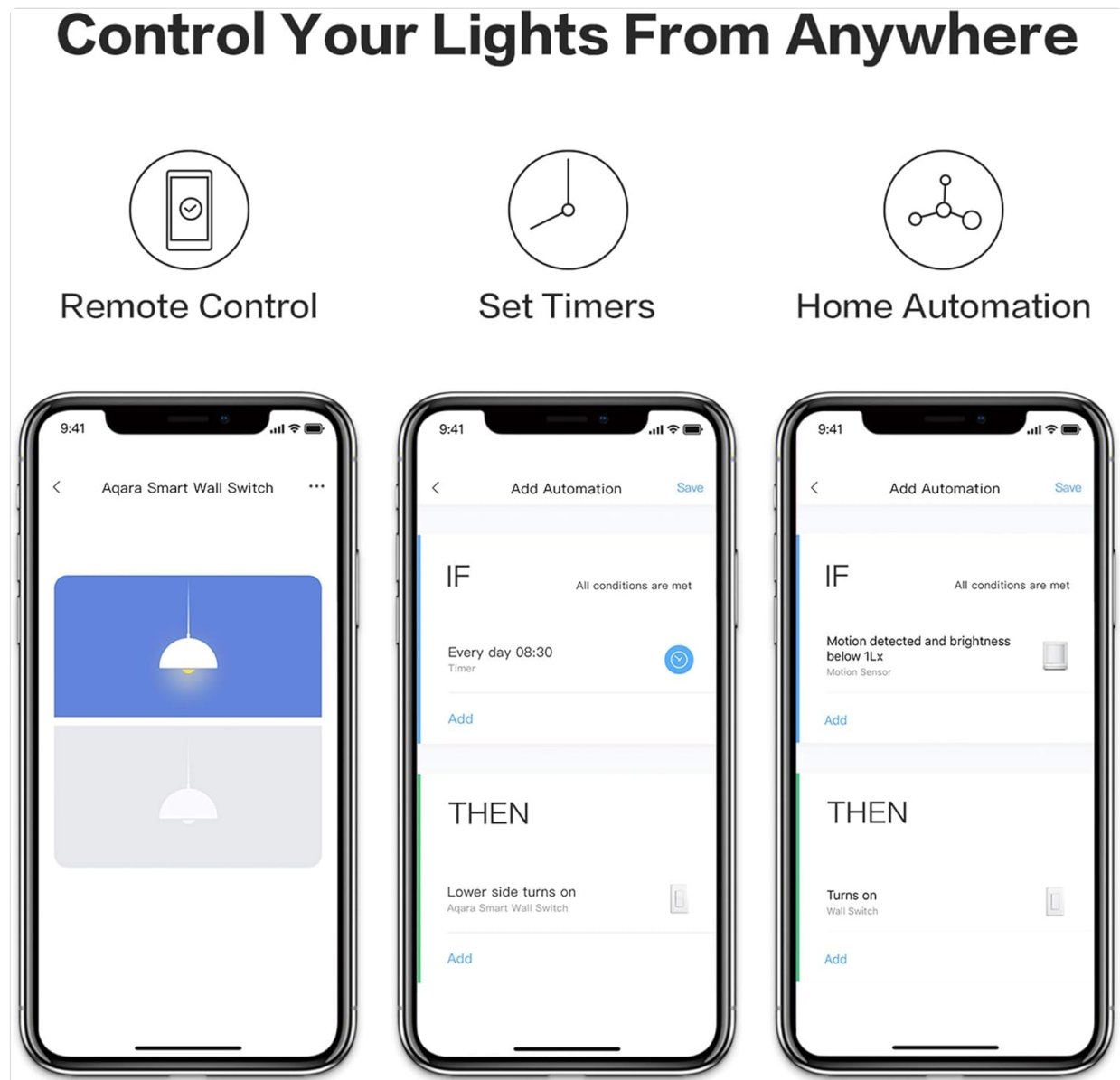


Image 6.1: This image displays three smartphone screens demonstrating the Aqara Home app's capabilities: remote control of lights, setting scheduled timers, and configuring home automation rules based on conditions like motion detection.

6.3. Timers and Schedules

Use the Aqara Home app to set up schedules and timers for your lights. For example, you can set lights to turn on at sunset and off at a specific time.

6.4. Home Automation

Create custom automation rules within the Aqara Home app. Combine the smart switch with other Aqara sensors (e.g., motion sensors, door/window sensors) to trigger lighting changes based on events in your home.

6.5. Voice Control

Integrate your Aqara Hub with Apple HomeKit, Google Assistant, or Amazon Alexa to control your lights using voice commands. Follow the instructions in your respective smart assistant app to link your Aqara account.

6.6. Multi-Way Control

For multi-way control (controlling the same light from two or more locations), you can pair the Smart Light Switch with an Aqara Wireless Mini Switch and configure the automation in the Aqara Home app. This allows for flexible control without complex re-wiring.

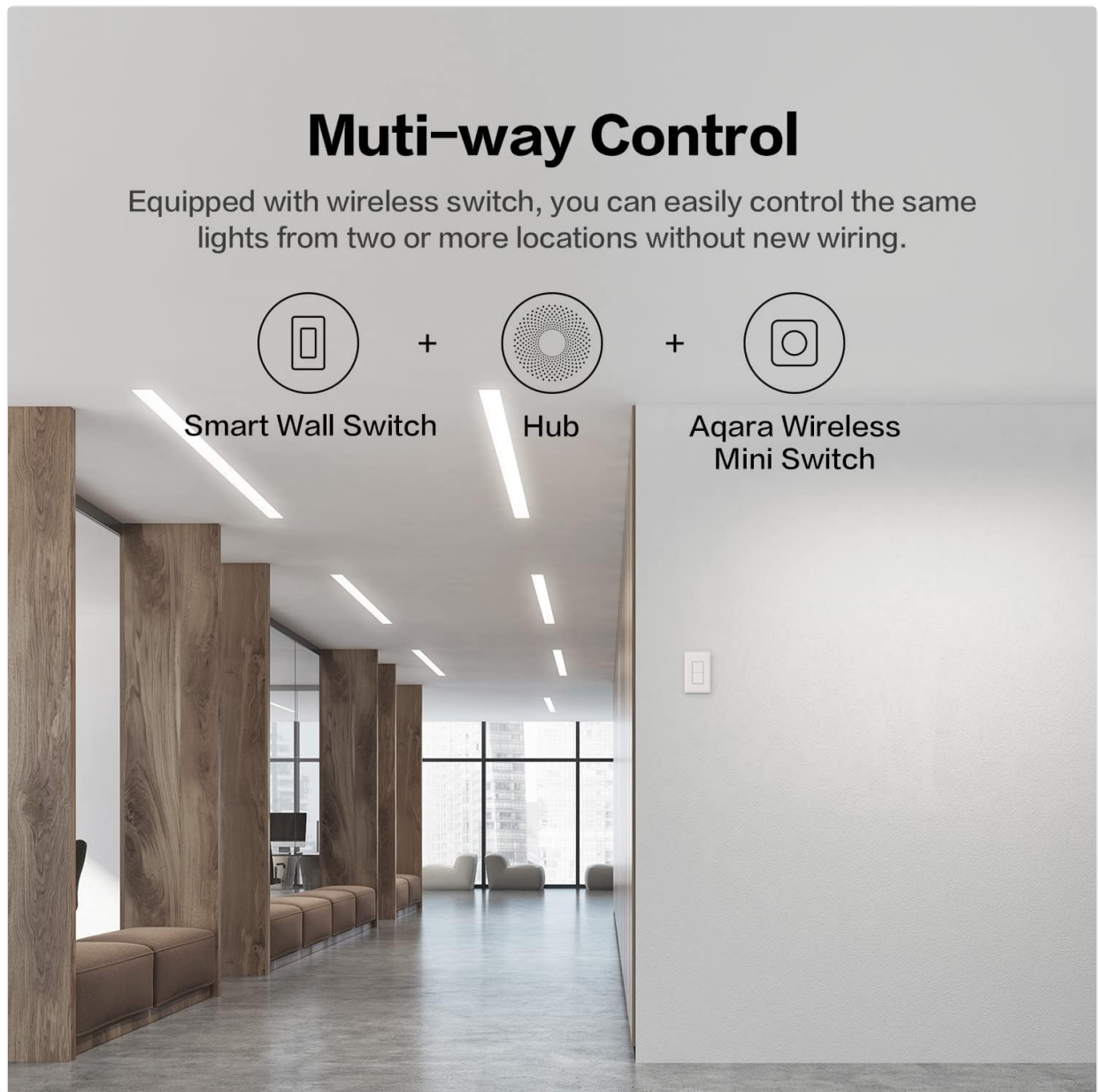


Image 6.2: This diagram illustrates how to achieve multi-way control for lighting using an Aqara Smart Wall Switch, an Aqara Hub, and an Aqara Wireless Mini Switch, allowing control from multiple locations without additional wiring.

7. MAINTENANCE

To ensure optimal performance and longevity of your Aqara Smart Light Switch:

- Clean the switch surface with a soft, dry cloth.
- Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- Do not expose the switch to excessive moisture or extreme temperatures outside its operating range.

8. TROUBLESHOOTING

If you encounter issues with your smart light switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Switch is unresponsive (no power).	No power to the switch; incorrect wiring.	Check the circuit breaker. Verify wiring connections (Live, Neutral, Load, Ground) are correct and secure.
Lights flicker or do not turn off completely.	Incompatible load type (e.g., very low wattage LED); neutral wire issue.	Ensure the connected load is within the specified limits. Verify the neutral wire connection is solid. Consider using a bypass module if flickering persists with low-wattage LEDs (consult an electrician).
Cannot pair with Aqara Hub.	Switch not in pairing mode; hub too far; hub offline.	Ensure the switch is in pairing mode (indicator light flashing). Move the switch closer to the hub. Check if the Aqara Hub is online and functioning correctly. Reset the switch and try pairing again.
Remote control or automation not working.	Hub offline; app issue; automation rule error.	Check the Aqara Hub's internet connection. Restart the Aqara Home app. Review your automation rules for any misconfigurations.

For more detailed troubleshooting or persistent issues, please refer to the official Aqara support resources or contact customer service.

9. SPECIFICATIONS

Brand	Aqara
Model Number	WS-USC04
UPC	192784000267
Operation Mode	ON-OFF
Current Rating	5 Amps
Operating Voltage	120 Volts (AC)
Contact Type	Normally Closed
Connector Type	Clamp
Terminal	Screw
Item Dimensions (L x W x H)	4.72 x 2.91 x 1.44 inches
Circuit Type	1-way
Actuator Type	Push Button
Contact Material	Brass

International Protection Rating	IP00
Lower Temperature Rating	32 Degrees Fahrenheit (0°C)
Upper Temperature Rating	104 Degrees Fahrenheit (40°C)
Controller Type	Amazon Alexa, Apple HomeKit, Google Assistant
Control Method	Voice
Connectivity Protocol	ZigBee
Item Weight	1.6 ounces
Included Components	Quick Start Guide, Screws, Wire Nuts

10. WARRANTY AND SUPPORT

Aqara products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official Aqara website for detailed warranty terms and conditions specific to your region.

For technical support, troubleshooting assistance, or any product-related inquiries, please contact Aqara customer support through their official website or the Aqara Home app. Support contact information can usually be found in the 'About' or 'Help' section of the app or on the Aqara website.