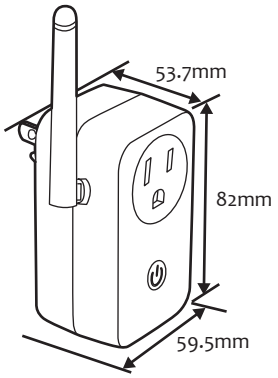
Wireless Power Switch (US)

WPW-220A
Installation Guide

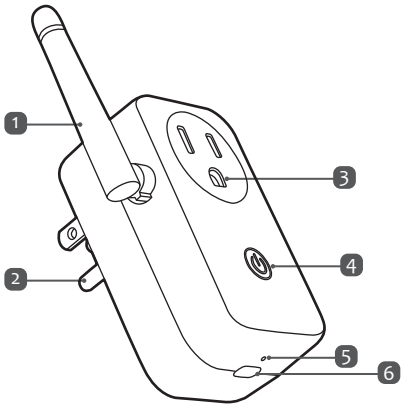
Overview

Name: Wireless Power Switch (US)
Power: 100~120VAC
Dimension: 82 x 59.5x 53.7mm



Names of Parts

1. Antenna
2. Triplex Outlet
3. Power Plug
4. ON/OFF Button
5. Status LED
6. SET Button



Features

- ❖ Home Automation – receive the Gateway's issued ON/OFF signal wirelessly, then control the power outlet for power supply. It can easily operate the home appliances, even by using a mobile device.
- ❖ Easy Setup – simply press the SET button on the device to join the system.
- ❖ Switch Link – when linked with other sensors, users can configure the action to be taken when the linked sensor is triggered. For example, if someone triggered the Contact Sensor, the Power Switching will automatically turn ON/OFF. It is suitable to be used as a power switch to control the corridor night auxiliary lighting.
- ❖ When linked with other home appliances, press the ON/OFF button to manually turn on/off the power relay. (The Red light indicates the power is ON)
- ❖ Equipped with a router function which enables the system to extend the wireless signal distance and lets other sensors join the system via its connection.
- ❖ Easy to monitor the power consumption of home electronic appliances for energy saving.

Installation

I. Before Installation

1. Power on the Gateway.
2. Waiting for about 90 seconds until the Gateway led light become solid green instead of blinking.
   Note: We suggest to use auto joining all device via APP at the first time. Please refer to **APP Quick Installation Guide.**

II. Device Installation and Manual Joining

1. Plug in the device to the wall outlet.
2. Short press the SET button at the top of the Gateway or at the bottom of Router (another Power Switching).Then short press the SET button on the device
3. The Gateway/Router and the device are joining as both LED indicators blink (around 30 seconds). Wait for few seconds until both LED indicators are turned off, indicating the device Joining process is successful.
   Note: If the device Joining process is failed, both LED indicators on those joined devices will light blue once after blinking.
4. To switch on the power, simply press the ON/OFF button. (The red light indicates the power is ON)

III. Device Usage

- ❖ Power Meter: Plug the home appliance on the Power Switch. Then it can calculate the Voltage(V), Current(A), Power(W), Frequency(Hz) when the device is switched ON. (The minimum Watt will appear after the device is switched on for at least 1 hour)
- ❖ Energy Used Cost: Configure the unit cost at peak time and off-peak time by Web interface first, and then select the accumulate period (by month, the maximum is 3 months). The system will automatically calculate the Total Cost, Peak Time Cost, and Off-Peak Time Cost. (The earliest period is 1 year ago)
- ❖ The power meter value and cost value can be viewed on the web interface and APP.

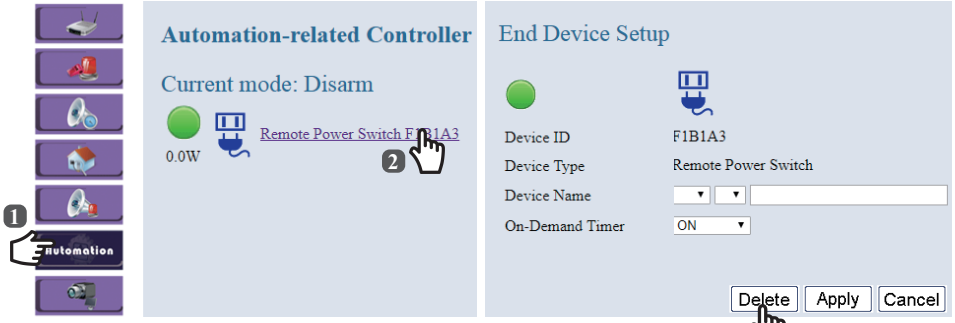
IV. Device Deletion (Back to factory default settings)

1. First, Login into website.
   About Login methods, please refer to **4. Basic Setting** of **Installation** in **Wireless Gateway Installation Guide**. (Page1).
2. To remove the device joining, pull out the device, long press SET button at the bottom of the device about 10 seconds. Plug in the device to the wall outlet again and wait 5 seconds. (Please see next page to continue the procedure.)

Installation (Continue)

IV. Device Deletion

3. Delete the device from the website.
   (See the features on the right side.)
4. Long press the SET button for 6 seconds. The LED indicator blinks blue and then turns off. After 6 seconds, the LED indicator blinks again (faster) and then turns off again, indicating the deletion process is sucessful. (Please complete the procedure in 3 minutes.)



Note: After device deletion, it will back to auto joining mode.

Notice

- ❖ Maximum resistive load: 10A/120V, 1200W.
- ❖ Power meter range:
  - i. Measure voltage range: 100~120VAC
  - ii. Measure current range: 1~10A
  - iii. Measure power range: 30~1200W
  - iv. The accumulate period is by month, and the maximum period is 3 months. (The earliest period is 1 year ago)
- ❖ When the Power Switch works as a router, the maximum joined sensors is 16. The maximum router in a system is 16.
- ❖ The maximum wireless signal cascade-able is 3 levels.

Troubleshooting

Problem	Solution
The LED indicator lights abnormally when linking to the system	a. Make sure the device is properly connected to the wall outlet. b. Reset to factory default (Please see **Installation**, ***IV. Device Deletion***), and re-join to the system. c. If the problem persists, please contact your local distributor.
Cannot link to the system	Check the wireless signal and the distance between device and Gateway/Router (line of sight) is 300 meters (max.). If there is any obstructions (i.e. walls or metal objects) between the devices, the distance will be shorter. Users can move the device closer or add a Router,then try again.

Specifications

Wireless Power Switch (US)	
Communication Protocol / Frequency	Zigbee Pro ZHA1.2 / 2.4 GHz ISM band
Operation Range	Up to 300 meters (LOS)
Operation Voltage	100~120VAC
LED Indicator	Blue 1PC/Red 1PC , LED Status: Relay (ON/OFF)
Operation Interface	Push button
Resistive Load	10A/120VAC, 1200W max
Inductive Load (Single Face)	0.5HP/120VAC
Over Current Protection	11A
Output Load Current Range	1~10A±10%
Output Load Power Range	30~1200W±10%
Operating Temperature	0°C ~ 40°C (32~104°F)
Storage Temperature	-20°C ~ 70°C (-4~158°F)
Humidity	90% RH Max, Non-Condensing
Dimension (W x H x D)	82mm x 59.5mm x 53.7mm
Weight	77g

RF exposure warning statement

Federal Communications Commission (FCC) Statement

15.21
You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) this device may not cause harmful interference and

2) this device must accept any interference received, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.