

SZ-ESW01 ZigBee Energy Switch Installation Guide

SZ-ESW01 is an electrical power measuring device, which with its embedded radio frequency (RF) technology that is compatible with ZigBee enabled devices, regardless of the manufacturer and can also be used with other devices with the ZigBee logo.

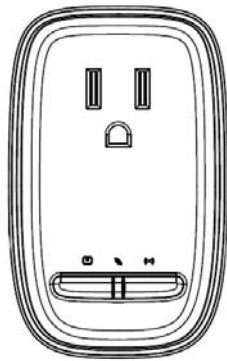
Furthermore, SZ-ESW01 can works as a signal repeater that will extend the wireless transmission range and increase the reliability of your network. With a ZigBee compatible gateway and software program, you'll also be able to monitor and inform the energy usage of the connected appliance.

Specification

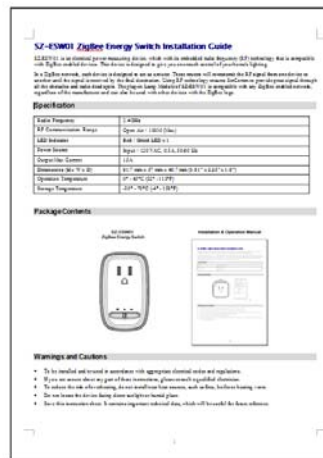
Radio Frequency	2.4GHz
RF Communication Range	Open Air : 100M (Max)
LED Indicator	Red / Greed LED x 1
Power Source	120 VAC
Max Load	15A
Dimensions (H x W x D)	91.7 mm x 57 mm x 40.7 mm (3.61" x 2.24" x 1.6")
Operation Temperature	0° - 45°C (32° - 113°F)
Storage Temperature	-20° - 70°C (-4° - 158°F)

Package Contents

SZ-ESW01
ZigBee Energy Switch




Installation & Operation Manual



Warnings and Cautions

- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, please consult a qualified electrician.
- To reduce the risk of overheating, do not install near heat sources, such as fires, boilers or heating vents.
- Do not locate the device facing direct sunlight or humid place.
- Save this instruction sheet. It contains important technical data, which will be useful for future reference.

LEDs

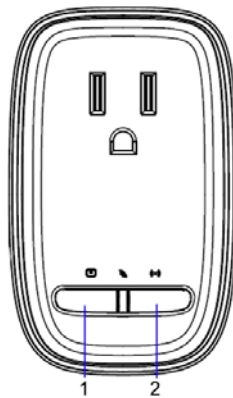
 Power (Red/Green)	On (Red) - When ON/OFF button is pressed to ON. Blinking (Green): <ul style="list-style-type: none">• The LED will blink for 10 seconds when join/leave function is being processed.• The LED will be on for 2 second and then off when join/leave function is succeeded.
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Installation

NOTE: In order to use SZ-ESW01 in a ZigBee network, the device must be joined into the network by using a ZigBee Coordinator. Please refer to the ZigBee Coordinator instruction sheet for complete information.

1. Put the SZ-ESW01 into wall receptacle. Make sure the receptacle is working properly. If it is controlled by a wall switch, which must be set to ON all the times.
2. Attach the appliance to the SZ-ESW01.

Operation



1. ON/OFF Button	2. Join/Leave Button
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Auto Operation:

NOTE: For complete details on operating by the ZigBee Coordinator, please refer to the individual device's instruction guide.

If a power interruption should occur while the device is ON, the appliance will be set to off when power is restored.

- **ON:** This command will turn on the appliance to the previous setting.
- **OFF:** This command will turn the appliance off.

MANUAL Operation:

- **ON:** Press the ON/OFF button of the device to turn the appliance on.

NOTE: The appliance will be turned ON regardless of the previous setting.

- **OFF:** Press the ON/OFF button to turn the appliance off.

Joining / Leaving to a ZigBee Network

- **Join Function**

For "Join" a network, please do the following instruction:

- Press the Join/Leave button for less than 1 second. The LED is blinking while processing. If the device has been joined with the controller successfully, the Green LED will be on for 2 seconds and then off. The Green LED will be off instantly if failed.

- **Leave Function**

- For "Leave" a network, please do the following instruction:
Pressed Join/Leave button for 3 seconds to let the SZ-ESW01 be deleted from the ZigBee Coordinator. If the SZ-ESW01 has been deleted successfully, the LED will be on for 2 second and then off.

Troubleshooting

If the device appears to be functioning improperly, please follow the suggested steps:

1. Confirm that the device is being supplied from a 120V power source.
2. Confirm that the device is being controlled in proper way (local switch is ON).
3. Be sure that the appliance does not exceed the current 15A limit.

FCC Statement

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 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SZ-ESW01 V1.0

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