zooz
bright ideas

Z-WAVE POWER SWITCH
ZEN15

Z-Wave Plus Certified Device

ETL Certified Device

FEATURES

▸ Local and Z-Wave wireless control of your favorite home appliances like microwaves and refrigerators
▸ Energy monitoring in live mode or over time (your Z-Wave gateway needs to support this feature)
▸ Scene inclusion for custom automation events when included to a Z-Wave gateway controller
▸ On/Off status recovery after power failure
▸ LED indicator to display Z-Wave signal strength and power usage for the connected device
▸ Added security with AES signal encryption (requires a security enabled gateway controller for full functionality)
▸ Z-Wave Plus with improved 500 chip for faster and more reliable wireless communication
▸ Built-in range extender

SPECIFICATIONS

▸ Model Number: ZEN15
▸ Z-Wave Signal Frequency: 908.42 MHz
▸ Power: 120V, 60Hz

▸ Maximum Load: 15A, 1800W, ½ HP
▸ Operating Temperature: 14° – 104° F
▸ Range: Up to 130 feet line of sight
▸ Installation and Use: Indoor only
▸ Dimensions: 20" (with cord) x 2.6" x 1:1"
▸ Weight: 10oz

Z-WAVE COMMAND CLASSES

This device requires the following command classes to be supported and recognized by your Z-Wave controller:
COMMAND_CLASS_ALLSWITCH
COMMAND_CLASS_ASSOCIATION
COMMAND_CLASS_ASSOCIATION_GROUP_INFORMATION
COMMAND_CLASS_BASIC
COMMAND_CLASS_CONFIGURATION
COMMAND_CLASS_DEVICE_RESET_LOCAL
COMMAND_CLASS_FIRMWARE_UPDATE_MD
COMMAND_CLASS_MANUFACTURER_SPECIFIC
COMMAND_CLASS_METER
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_SCENE_ACTIVATION
COMMAND_CLASS_SCENE_ACTUATOR_CONFIGURATION
COMMAND_CLASS_SECURITY
COMMAND_CLASS_SWITCH_BINARY
COMMAND_CLASS_VERSION
COMMAND_CLASS_ZWAVEPLUS_INFO

BEFORE YOU RETURN IT

Let us know if you are having any issues installing or operating the device. Our friendly tech support is here to help, every day of the year:
ask@getzooz.com
Get more helpful tips at getzooz.com

⚠ CAUTION

This is an electrical device - please use caution when installing and operating the Power Switch. Remote control of appliances may result in unintentional or automated activation of power. Do not use this Z-Wave device to control electric heaters or other appliances which produce the risk of fire, burns, or electrical shock when unattended.

INSTALLATION: PLEASE READ

WAIT!
Make sure the load you are about to connect does not exceed 1800W, 15A, or 1/2 HP in power.
DO NOT CONNECT THIS SWITCH TO 220V APPLIANCES.

⚠ DO NOT connect any of the following to this Power Switch:

▸ 220V water boilers
▸ Electrical dryers
▸ 220V compressors or pumps
▸ Phone or battery chargers
▸ Electric heaters

You may safely use this smart plug with:
▸ 110V refrigerators rated at or below 15A
▸ 110V window and split AC units rated at or below 15A
▸ 110V Humidifiers and dehumidifiers
▸ 110V Sump pumps and other pumps rated at or below 1/2HP
▸ Microwaves
▸ Gas dryers
▸ Floor lamps
▸ TV's and Audio / Video Equipment
▸ Computers / PCs / Laptops

▸ Alarm Clocks

Not sure if your equipment can be safely controlled by the Power Switch? Just ask: ask@getzooz.com

Connecting heavy duty equipment powered by 220V to this Power Switch will DAMAGE the device and may cause the connected appliance to malfunction.
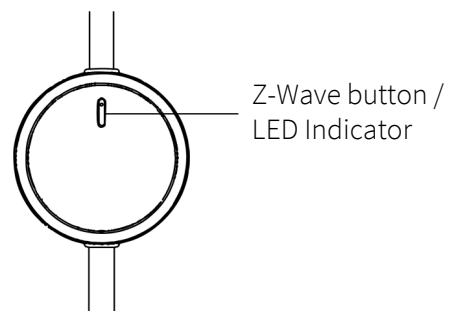
Plug the Power Switch into any standard grounded 110V receptacle. Do NOT connect any devices to the plug at this point. Press and release the Z-Wave button and make sure the LED indicator goes on as well - this confirms the surge protector is active.

Q: I pressed the Z-Wave button but the LED did not light up. What should I do?
A: If you just purchased your device and the LED indicator never turned on, please try plugging the device into a different receptacle to verify it's not a grounding issue and try pressing the Z-Wave button a few times quickly. If the LED still does not turn on, contact the reseller or Zooz directly: ask@getzooz.com

Use the Z-Wave button to turn the lamp or appliance on and off manually. The plug is off when the LED indicator is lit up in pink.

WIRELESS CONTROL

Z-Wave button / LED Indicator

Z-WAVE INCLUSION

⚠ Please include the Power Switch to your network BEFORE connecting it to the appliance you wish to control.

Auto Z-Wave Inclusion
1. Put your Z-Wave controller into inclusion mode

Manual Z-Wave Inclusion
1. Plug the Power Switch into a grounded receptacle located within direct range from your Z-Wave gateway controller
2. Put your Z-Wave controller into inclusion mode
3. Press and release the Z-Wave button 3 TIMES QUICKLY
4. The LED indicator will start flashing blue, then turn blue (on) or pink (off) once included
5. A new on / off device will be recognized by your Z-Wave controller

Secure Z-Wave Inclusion
1. Plug the Power Switch into a grounded receptacle located within

2. Plug the Power Switch into a grounded receptacle located within direct range from your Z-Wave gateway controller
3. The LED indicator will start flashing blue, then turn blue (on) or pink (off) once included
4. A new on / off device will be recognized by your Z-Wave controller

Manual Z-Wave Inclusion
1. Plug the Power Switch into a grounded receptacle located within direct range from your Z-Wave gateway controller
2. Put your Z-Wave controller into inclusion mode
3. Press and release the Z-Wave button 3 TIMES QUICKLY
4. The LED indicator will start flashing blue, then turn blue (on) or pink (off) once excluded
5. A new on / off device will be recognized by your Z-Wave controller

TROUBLESHOOTING TIPS:

If you are unable to include the Z-Wave Power Switch to your controller, please try one of the following:
▸ Bring the Power Switch closer to your Z-Wave controller
▸ Once you put the controller into inclusion mode, press and release the Z-Wave button quickly more than 3 times to ensure the command has gone through
▸ Put your controller into EXCLUSION mode. Press and release the Z-Wave button quickly 3 times, and then try adding it to your network again
▸ If you are trying to include the Power

Switch as a secure device, please make sure your controller supports AES signal encryption

Z-WAVE EXCLUSION

1. Plug the Power Switch into a grounded receptacle located within direct range of your Z-Wave gateway controller
2. Put your Z-Wave controller into exclusion mode
3. Press and release the Z-Wave button 3 TIMES QUICKLY
4. The LED indicator will start flashing green, then turn blue (on) or pink (off) once excluded
5. A new secure on / off device will be recognized by your Z-Wave controller

FACTORY RESET

When your network's primary controller is missing or otherwise inoperable, you

direct range from your Z-Wave gateway controller
2. Put your Z-Wave controller in secure inclusion mode
3. Press and hold the Z-Wave button for at least 3 seconds
4. The LED indicator will start flashing green, then turn blue (on) or pink (off) once included
5. A new secure on / off device will be recognized by your Z-Wave controller

may need to reset the device to factory settings manually. In order to complete the process, plug the Power Switch into a grounded receptacle, then PRESS AND HOLD the Z-Wave button for AT LEAST 20 SECONDS. The LED indicator will flash orange and then stay solid orange for 2 seconds to indicate successful reset. The Power Switch will then turn off.

NOTE: All previously recorded activity and custom settings will be erased from the device's memory. You may only reset your Power Switch once it has been included to a Z-Wave network.

ASSOCIATION

Depending on your Z-Wave gateway's home automation software capabilities, you may be able to associate your Power Switch in groups with other Z-Wave devices to schedule scenes and create events. This Power Switch supports Group 1 with up to five devices for lifeline communication. This device will send BASIC REPORT to Group 1 when operated manually.

LED NOTIFICATIONS

The LED indicator on your Power Switch will visually report power consumption and network range.

How to read LED indicator colors?
Pink = Power Switch is off
Blue = 0 – 300 W
Cyan = 300 – 600 W
Green = 600 – 900 W
Yellow = 900 – 1200 W
Red = 1200 – 1500 W
Purple = 1500 – 1800 W
Purple blink = over 1800 W

LED Indicator Control
Parameter 27: You can choose how the LED indicator displays power consumption on the Power Switch
Values: 0 – LED indicator will display power consumption whenever the device is plugged in (LED stays on at all times – default setting); 1 – LED indicator will display the level of power consumption for 5 seconds only whenever the device is turned on or off (LED indicator will stay off for most of the time). Size: 1 byte dec.

How to test Z-Wave network range for my Power Switch?

You can easily check if the Power Switch is within your Z-Wave controller's range:

Press and hold the Z-Wave button for 6 to 9 seconds until the LED indicator turns violet. The LED indicator will then report signal strength.

▸ Flashing green = direct communication with the primary controller is established and still being diagnosed
▸ Solid green for 2 seconds = direct communication with the primary controller is stable
▸ Flashing orange = direct communication with the primary controller is intermittent and being diagnosed
▸ Solid orange = communication quality is fair
▸ Solid red = communication with the primary controller has failed

Press and release the Z-Wave button to exit testing mode.

⚠ This function may only be activated once the Power Switch has been included to a Z-Wave network.

ADVANCED SETTINGS

If your controller's software allows for advanced configuration and parameter adjustment, you will be able to change and save the settings below and customize the Power Switch to serve your needs. Please refer to your controller's user guide for advanced programming instructions as they are a little different for each software.

Overload Protection
Parameter 20: Overload protection will turn the Power Switch relay off once power exceeds 16.5A for over 5 seconds when this setting is enabled. We DO NOT recommend changing this parameter's value as it may result in device damage and malfunction.
Values: 0 – Disabled; 1 – Enabled (default).
Size: 1 byte dec.

On/Off Status Recovery After Power Failure

Parameter 21: Choose the recovery state for your Power Switch if power outage occurs.
Values: 0 – Power Switch remembers the status prior to power outage and turns back to it (default); 1 – Power Switch automatically turns ON once power is restored (it does not remember the status prior to power outage); 2 – Power Switch automatically turns OFF once power is restored (it does not remember the status prior to power outage);
Size: 1 byte dec.

On/Off Status Change Notifications
Parameter 24: Your Power Switch will automatically send a notification to the controller and other associated devices if its status changes from on to off or the other way round. Choose when you want it to send the report.
Values: 0 – disabled (it will not send status change notifications); 1 – sends notification if status is changed

Power Report Percentage Threshold
Parameter 152: Choose how you want your Power Switch to report power consumption to your controller and associated devices by percentage rate. The number entered as value corresponds to the percentage in power usage change the appliance needs to go over for the event to be reported. So if 10% is entered by default, the Power Switch will report any change in power consumption over 10% (whether it's at least 10% more or 10% less consumption compared to previous report).
Values: 0 – 255; 0 – disabled (it will not report power consumption based on percentage change); 10 – default setting
Size: 1 byte dec.

Power Report Value Threshold
Parameter 151: Choose how you want your Power Switch to report power consumption to your controller and associated devices. The number entered as value corresponds to the number of Watts the appliance needs to go over for the change to be reported. So if 50 Watts are entered by default, the Power Switch will report any change in power usage over 50 Watts (whether it's at least 50 Watts more or 50 Watts less compared to previous report).
Values: 0 – 65535; 0 – disabled (it will not report power consumption based on value change); 50 – default setting
Size: 2 byte dec.

Power Report Frequency
Parameter 171: Choose how often you want your Power Switch to report power consumption (W) to your controller and associated device. The number entered as value corresponds to the number of

seconds. So if 30 is entered by default, the Power Switch will report power consumption every 30 seconds.
Values: 5 – 2678400; 0 – disabled (it will not report power consumption); 30 – default setting
Size: 4 byte dec.

Energy Report Frequency
Parameter 172: Choose how often you want your Power Switch to report energy usage (KWH) to your controller and associated device. The number entered as value corresponds to the number of seconds. So if 300 is entered by default, the Power Switch will report energy usage every 300 seconds (5 minutes).
Values: 5 – 2678400; 0 – disabled (default – it will not report energy usage); 300 – default setting
Size: 4 byte dec.

Voltage Report Frequency
Parameter 173: Choose how often you want your Power Switch to report voltage (V) to your controller and

associated device. The number entered as value corresponds to the number of seconds.
Values: 5 – 2678400; 0 – disabled (default – it will not report voltage levels)
Size: 4 byte dec.

Electricity Report Frequency
Parameter 174: Choose how often you want your Power Switch to report levels of electrical current (A) to your controller and associated device. The number entered as value corresponds to the number of seconds.
Values: 5 – 2678400; 0 – disabled (default – it will not report electrical current levels)
Size: 4 byte dec.

⚠ WARNING
▸ This product should be installed indoors upon completion of any building renovations
▸ Prior to installation, the device should be stored in a dry, dust-and-mold-proof place

▸ Do not install the Power Switch in a place with direct sun exposure, high temperature or humidity
▸ Keep away from chemicals, water, and dust
▸ Ensure the device is never close to any heat source or open flame to prevent fire
▸ Ensure the device is connected to an electric power source that does not exceed the maximum load power
▸ No part of the device may be replaced or repaired by the user

Z-WAVE PLUS CERTIFIED
This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

ETL CERTIFIED
This is an ETL certified device. ETL, just like UL, is a Nationally Recognized Testing Laboratory. The ETL mark is