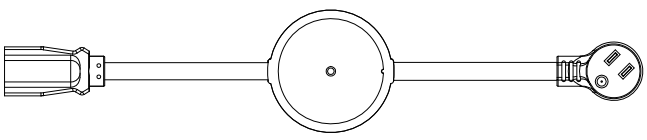
## USER MANUAL

zooz™
bright ideas

# POWER SWITCH

ZEN15 800LR



www.getzooz.com

**Scan to register your product** for extended warranty and direct access to firmware files.
www.getzooz.com/register

## FEATURES

- Z-Wave on/off control of large appliances up to 15A
- Energy monitoring live and over time
- LED indicator to display Z-Wave signal strength and power usage for the connected device
- Z-Wave Long Range for ultra reliable no-mesh communication
- NEW 800 series chip for faster performance
- Built-in overload protection and ETL certification

## SPECIFICATIONS

- Model Number: ZEN15 800LR
- Z-Wave Region: US/CA/MX
- Power: 120 VAC, 60 Hz
- Maximum Load: 15 A, 1800 W
- Operating Temperature: 14 – 104 F
- Range: Up to 300 feet (or up to 1 mile with LR)
- Installation and Use: Indoor only
- Dimensions: 20” (with cord) x 2.6” x 1.1”
- Weight: 10oz

## ⚠ 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

Plug the Power Switch into any standard grounded 120 V receptacle. Do NOT connect any devices to the plug at this point. Click the Z-Wave button to see if the LED indicator changes color. If the LED indicator doesn’t light up at all, please try a different receptacle. If it’s still off, please get in touch with our support team: **ask@getzooz.com**

### BEFORE YOU PLUG ANYTHING IN

**Make sure the load you are about to connect does NOT exceed 15 A in power.** This Power Switch can hold up to 15 A in total.
**Connecting 220 V equipment to this Power Switch will DAMAGE the device and may cause the connected appliance to malfunction.**

| X DON’T USE WITH | ✓ OK. TO USE WITH |
|---|---|
| • 220 V Boilers | • (De)humidifiers |
| • 220 V Pumps / Compressors | • Window AC units |
| • Electrical Dryers | • Sump pumps |
| • Chargers | • Gas Dryers |
| • Electric heaters | • Refrigerators |
| • Routers | • Floor Lamps |
| | • Tv’s and Video |
| | • Computers |

## ⚠ 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 Smart 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.

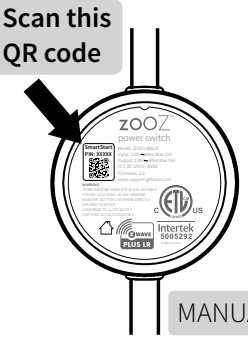


## Z-WAVE CONTROL

### 1. ADD DEVICE to your hub

**Initiate inclusion (pairing)** in the app (or web interface). Not sure how? ask@getzooz.com
SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network.

**Scan this QR code**

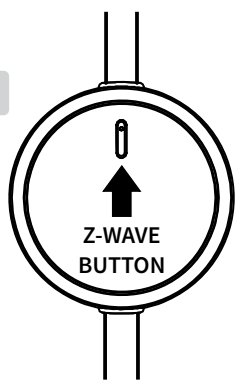



### 2. PLUG the Power Switch into a receptacle

The LED indicator will start flashing and the plug will join the network automatically.

### MANUAL INCLUSION

If your hub doesn’t support QR code scanning, put your Z-Wave hub into inclusion (pairing) and click the Z-Wave button on the plug 3 times quickly. The LED indicator will start flashing blue to confirm inclusion mode.




Choose your hub and scan the QR code with your phone’s camera. Then click on the link to access the step-by-step pairing instructions.

**Z-Box Hub** **SmartThings** **Hubitat** **Home Assistant**

Get more tutorials and helpful tips at ww.support.getzooz.com

### TROUBLESHOOTING

**The Power Switch won’t add to your hub? Try this:**

1. Initiate **EXCLUSION** and click the Z-Wave button 3 times quickly.
2. Click the Z-Wave button **4-5 times quickly** when adding it or try adding it in a **non-secure** mode.
3. Bring the Power Switch **closer** to your hub, it may be out of range.
4. Double-check if the device is powered.
5. Get troubleshooting tips for your hub at **www.support.getzooz.com**

### EXCLUSION (REMOVING / UNPAIRING DEVICE)

1. Bring the Power Switch within direct **range** of your Z-Wave gateway (hub).
2. Put the Z-Wave hub into **exclusion** mode (not sure how to do that? ask@getzooz.com).
3. Press and release the **Z-Wave button 3 times** quickly.
4. Your hub will confirm exclusion and the Switch will disappear from your controller's device list.

## WARRANTY

This product is covered under a 12-month warranty and under a 5-year limited warranty once registered. To read the full warranty policy or file a warranty claim, please go to www.getzooz.com/warranty

IN NO EVENT SHALL ZOOZ OR ITS SUBSIDIARIES AND AFFILIATES BE LIABLE FOR ANY INDIRECT, INCIDENTAL, PUNITIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, OR USE INCURRED BY CUSTOMER OR ANY THIRD PARTY, WHE-THER IN AN ACTION IN CONTRACT, OR OTHERWISE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DA-MAGES. ZOOZ'S LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY FOR ANY CAUSE OF ACTION ARISING IN CON-NECTION WITH THIS AGREEMENT OR THE SALE OR USE OF THE PRODUCTS, WHETHER BASED ON NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY, BREACH OF AGREEMENT, OR EQUITABLE PRINCIPLES, IS EXPRESSLY LIMITED TO, AT ZOOZ'S OPTION, REPLACEMENT OF, OR REPAYMENT OF THE PURCHASE PRICE FOR THAT POR-TION OF PRODUCTS WITH RESPECT TO WHICH DA-MAGES ARE CLAIMED. ALL CLAIMS OF ANY KIND ARISING IN CONNECTION WITH THIS AGREEMENT OR THE SALE OR USE OF PRODUCTS SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING WITHIN THIRTY (30) DAYS FROM ZOOZ'S DELIVERY, OR THE DATE FIXED FOR DELI-VERY IN THE EVENT OF NONDELIVERY.

FCC NOTE
THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER’S AUTHORITY TO OPERATE THE EQUIPMENT. STORE INDOORS WHEN NOT IN USE. SUITABLE FOR DRY LOCATIONS ONLY. DO NOT IMMERSE IN WATER. NOT FOR USE WHERE DIRECTLY EXPOSED TO WATER.
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following conditions:
1. This device may not cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.
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 according to instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in any given installation.
If this equipment causes harmful interference to radio or television reception, the user may try to correct the interference by taking one or more of the following measures:
- Reorient or relocate receiving antenna
- Increase the separation between equipment and receiver
- Connect equipment into a separate outlet or circuit from receiver
- Consult the dealer or an experienced radio/TV technician for additional assistance

## ADVANCED SETTINGS

Please refer to your controller's user guide for advanced programming instructions as they are a little different for every software. **Not sure where to start? Go to www.support.getzooz.com or scan one of the QR codes below for detailed instructions how to change the settings on Z-Box, SmartThings, and more.**

## ASSOCIATION

The Switch supports Group 1 with up to 5 devices for Lifeline communication. This device will send BASIC REPORT to Group 1 when operated manually.

## CUSTOMIZE YOUR POWER SWITCH

Choose your hub and scan the QR code with your phone's camera. Then click on the link to learn how to access and change the advanced settings for the device on your hub.

**Z-Box Hub** **SmartThings** **Hubitat** **Home Assistant**

Get more tutorials and helpful tips at ww.support.getzooz.com

**LED Indicator Mode**

Parameter 27: You can choose how the LED indicator displays power consumption on the Power Switch and when it's on or off.

Values: 0 – LED indicator will display power consumption whenever the device is plugged in (LED stays on at all times, even if the switch is off); 1 – LED indicator will display power consumption whenever the device is ON in and will turn off when the switch is OFF (default); 2 – 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); 3 – LED indicator is OFF at all times except for inclusion, exclusion, and Z-Wave range test.

Size: 1 byte dec.

**How to read LED indicator colors?**

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

| | |
|---|---|
| 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 |

**How to test Z-Wave network range for my ZEN15?**

You can easily check if the Power Switch is within your Z-Wave hub'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 hub has failed

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

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

**Overload Protection**

Parameter 20: Overload protection will turn the ZEN15's relay off once current 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 basic set notification if status is changed manually or remotely via Z-Wave (default); 2 – sends basic set notification ONLY if status is changed manually by pressing and releasing the Z-Wave button on the Power Switch Size: 1 byte dec.

**Power Wattage Report Value Threshold**

Parameter 151: Choose how you want your Power Switch to report power consumption to your hub. 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 (the Switch will not report power consumption based on this setting). Default: 50.

Size: 2 byte dec.

**Power Report Percentage Threshold**

Parameter 152: Choose how you want your Power Switch to report power use to your hub 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 use over 10% (whether it's at least 10% more or 10% less power use compared to previous report).

Values: 0 – 255; 0 – disabled (it will not report power consumption based on percentage change); Default: 10.

Size: 1 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); Default: 30. 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 (it will not report energy usage); Default: 300. 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 (it will not report voltage levels); Default: 300. 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 (it will not report electrical current); Default: 300. Size: 4 byte dec.

**Manual Control**

Parameter 30: Choose if you want to use the physical button on the Power Switch to turn the outlet on or off manually or if you want to disable this function. If this parameter is set to 0 (disabled), you will only be able to turn the outlet on or off remotely using your Z-Wave gateway controller.

Values: 0 – manual control disabled; 1 – manual control enabled(default). Size: 1 byte dec.

**Scan this QR code to access more advanced settings.**

This device requires the following **command classes** to be supported and recognized by your Z-Wave controller:

COMMAND_CLASS_ZWAVEPLUS_INFO_V2
COMMAND_CLASS_TRANSPORT_SERVICE_V2
COMMAND_CLASS_SECURITY_2_V1
COMMAND_CLASS_SUPERVISION_V1
COMMAND_CLASS_APPLICATION_STATUS_V1
COMMAND_CLASS_BASIC
COMMAND_CLASS_SWITCH_BINARY_V2
COMMAND_CLASS_CONFIGURATION_V4
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO_V1
COMMAND_CLASS_VERSION_V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_DEVICE_RESET_LOCALLY_V1
COMMAND_CLASS_POWERLEVEL_V1
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3
COMMAND_CLASS_INDICATOR_V3
COMMAND_CLASS_SCENE_ACTUATOR_CONF_V1
COMMAND_CLASS_SCENE_ACTIVATION_V1

## FACTORY RESET

When your network's primary controller is missing or otherwise inoperable, you 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 stay solid blue and then turn yellow for 2 seconds to indicate successful reset.
All previously recorded activity and custom settings will be erased from the device's memory.

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.
This is an ETL certified device. ETL, just like UL, is a Nationally Recognized Testing Laboratory. The ETL mark is proof of product compliance to North American safety standards.