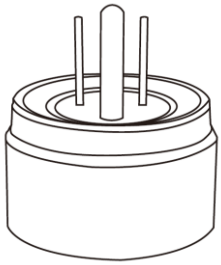
USER MANUAL

zooz™
bright ideas

Z-WAVE MINI PLUG



ZEN07

Z-Wave Plus Certified Device

Certified

WELL DONE!

You have picked the finest solution for your smart home, congratulations!
Now it's time to enjoy these great features of your new Mini Plug:
- Wireless and manual on / off control of floor lamps and small appliances
- Energy monitoring in live mode or over time (your Z-Wave gateway needs to support this feature)
- Scene inclusion for custom automation scenarios when included to a Z-Wave gateway controller
- Advanced configuration to customize LED indicator display and Z-Wave button functionality
- Automatic status recovery after power outage
- Timer option to turn off the device automatically (your Z-Wave gateway needs to support this feature)
- Z-Wave Plus with improved 500 chip for faster and safer wireless communication
- Built-in range extender for a stronger, more reliable network
- Super small size – easily fits two in a standard double receptacle

SPECIFICATIONS

Model Number: ZEN07
Z-Wave Signal Frequency: 908.42 MHz
Power: 110V, 60Hz
Maximum Load: 13A
Power consumption: 0.13W
Operating Temperature: 32 – 104 F
Range: Up to 100 feet line of sight
Installation and Use: Indoor only
Dimensions: 1 ¾“ (diameter) x 1 1/8”
Weight: 1 ½ oz

Z-WAVE COMMAND CLASSES

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

COMMAND_CLASS_ZWAVEPLUS_INFO (V2)
COMMAND_CLASS_MANUFACTURER_SPECIFIC (V2)
COMMAND_CLASS_VERSION (V2)
COMMAND_CLASS_ASSOCIATION (V2)
COMMAND_CLASS_ASSOCIATION_GRP_INFO (V1)
COMMAND_CLASS_DEVICE_RESET_LOCALLY (V1)
COMMAND_CLASS_POWERLEVEL (V1)
COMMAND_CLASS_SWITCH_BINARY (V1)
COMMAND_CLASS_NOTIFICATION (V4)
    NOTIFICATION_REPORT
    NOTIFICATION_TYPE_POWER_MANAGEMENT
    NOTIFICATION_EVENT_POWER_MANAGEMENT_OVER_CURRENT_DETECTED
    NOTIFICATION_TYPE_POWER_MANAGEMENT
    NOTIFICATION_EVENT_POWER_MANAGEMENT_NO_EVENT
COMMAND_CLASS_METER (V4)
COMMAND_CLASS_CONFIGURATION (V1)
COMMAND_CLASS_SWITCH_ALL (V1)
COMMAND_CLASS_BASIC (V1)

BEFORE YOU RETURN IT

Let us know if you are having any issues installing or operating the device.
Our fast and 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 Mini Plug. 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 Mini Plug 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.

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. Then, 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 OFF.

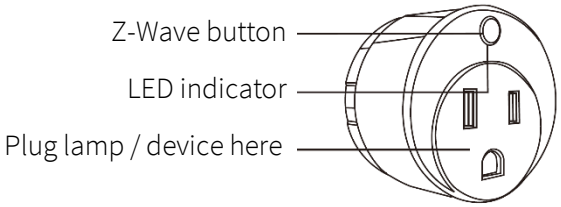
WAIT!
Make sure the load you are about to connect does not exceed 13A or ½HP (check HP and not Amps for all motor loads such as electrical fans and AC units) in power.

Connecting heavy duty equipment to this Mini Plug will DAMAGE the device and may cause the connected appliance to malfunction.

DO NOT connect any of the following to this smart plug:
- Washer
- Dryer
- Refrigerator
- Electric heater
- Phone or battery chargers (use the USB ports instead)

You may safely use this smart plug with:
- Floor lamps
- TVs and Audio / Video Equipment
- Computers / PCs / Laptops
- Alarm Clocks

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



Z-WAVE INCLUSION

1. Plug the Mini Plug into a grounded receptacle within the range of your Z-Wave network
2. Put your Z-Wave controller into inclusion mode
3. Press and release the Z-Wave button on the Mini Plug 3 TIMES quickly. The LED indicator will flash green. It will turn solid green once the process has been completed
4. A new on / off device should appear on your device list

Troubleshooting Tips
If you are unable to include the Z-Wave Mini Plug to your controller, please try one of the following:
- Bring the Mini Plug closer to your Z-Wave controller or use a hand-held secondary controller to perform inclusion
- Once in inclusion mode, press and release the Z-Wave button quickly 5-6 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

Z-WAVE EXCLUSION

1. Plug the Mini Plug into a grounded receptacle
2. Put your Z-Wave controller into exclusion mode
3. Press and release the Z-Wave button 3 TIMES quickly. The LED indicator will flash pink
4. The smart plug should disappear from your controller's device list

If the first attempt is unsuccessful, please repeat the process following all steps carefully.

FACTORY RESET

When your network's primary controller is missing or otherwise inoperable, you may need to reset the device to factory settings manually. To complete the process, plug the Mini Plug into a grounded receptacle, then PRESS AND HOLD the Z-Wave button for AT LEAST 10 SECONDS until the LED indicator flashes red. Release the button. NOTE: All previously recorded activity and custom settings will be erased from the device's memory.

ASSOCIATION

Depending on your Z-Wave gateway's home automation software capabilities, you may be able to associate your Mini Plug in groups with other Z-Wave devices to schedule scenes and create events.
This Mini Plug supports the following association groups with up to five devices per group:
Group 1 for lifeline communication of on / off status to Z-Wave controller. Supported command classes:
NOTIFICATION_REPORT_V4
COMMAND_CLASS_METER_V4
COMMAND_CLASS_SWITCH_BINARY
DEVICE_RESET_LOCALLY_NOTIFICATION

Group 2 for status and overload communication to other Z-Wave devices in the network. Supported command classes:
BASIC_SET

Group 3 for notifications to Z-Wave devices associated in this group. Supported command classes:
NOTIFICATION_REPORT_V4

Please refer to your controller's user guide for advanced programming instructions as they are a little different for every software.

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 Mini Plug's performance to serve your needs.

Energy Monitoring

If your Z-Wave controller's software supports energy monitoring, this Mini Plug will report the following values to your controller:
Energy Usage (kWH)
Power Consumption (W)
Voltage (V)
Electrical Current (A)

Parameter 1: Choose if you want the Mini Plug to send metering reports to the controller.
Values: 0 – Disabled; 1 – Enabled (default).
Size: 1 byte dec.

Parameter 2: Choose how often you want the Mini Plug to send metering reports to the controller. The number entered as the value corresponds to the number of seconds. So if 300 is entered by default, the Mini Plug will report power consumption every 300 seconds (5 minutes).
Values: 1 – 65536 (seconds). 300 (seconds) – default setting.
Size: 2 byte dec.

Power Report Percentage Threshold

Parameter 6: Choose how you want your Mini Plug to report power consumption, electricity, voltage, and energy usage to your controller and associated devices by percentage rate. The number entered as the value corresponds to the change in percentage the appliance needs to go over for the event to be reported. So if 5% is entered by default, the Mini Plug will report any change in power consumption (W), voltage (V), electricity (A), or energy usage (kWH) over 5% (whether it's at least 5% more or 5% less compared to previous report).
Values: 1 – 100 (%); 5 (%) – default setting
Size: 1 byte dec.

Overload Protection

Parameter 3: Use this parameter to adjust the maximum amount of electricity you want your Mini Plug to handle. The number entered as the value corresponds to the number of Amperes. Overload protection will turn the Mini Plug's relay off once load exceeds 13A by default. It will also send a notification (NOTIFICATION_EVENT_POWER_MANAGEMENT_OVER_LOAD_DETECTED) to the controller and all associated devices. LED indicator on the device will blink red until the load is disconnected. Press the Z-Wave button ONCE to switch the alarm off.
The value set in this parameter needs to be greater than the value in parameter 4.
Values: 1 – 16 (Amperes). 13 (Amperes) – default setting.
Size: 1 byte dec.

Parameter 4: Use this parameter to adjust electricity value for LED notifications of heavy load. The LED indicator on the Mini Plug will light up yellow once electricity from the load is greater than the value set in this parameter. The relay will NOT turn off.
The value set in this parameter can NOT be greater than the value in parameter 3.
Values: 1 – 13 (Amperes) or whatever the value set in parameter 3. 12 (Amperes) – default setting.
Size: 1 byte dec.

LED Notifications

Parameter 5: Use this parameter to turn LED notifications on or off.
Values: 0 – LED disabled; 1 – LED enabled (default).
Size: 1 byte dec.

How to read LED indicator colors?

Blue fast blink = Mini Plug is powered on and included to Z-Wave network
Green fast blink = Mini Plug is in inclusion mode

Green solid = Mini Plug is on
Pink slow blink = Mini Plug is powered on and NOT included to Z-Wave network
Red single flash = Mini Plug has been reset to factory defaults
Red slow blink = the load connected to your Mini Plug has exceeded the value set in parameter 3
Yellow solid = the load connected to your Mini Plug has exceeded the value set in parameter 4

On/Off Status Recovery After Power Failure

Parameter 7: Choose the recovery state for your Mini Plug if power outage occurs.
Values: 0 – Mini Plug automatically turns OFF once power is restored (it does not remember the status prior to power outage); 1 – Mini Plug remembers the status prior to power outage and turns back to it (default);
Size: 1 byte dec.

Auto Turn-Off Timer

Parameter 8: Use this parameter to enable or disable the auto turn-off timer function. If this feature is enabled, the Mini Plug will automatically turn off after a fixed period of time (set in parameter 9).
Values: 0 – timer disabled (default); 1 – timer enabled
Size: 1 byte dec.

Parameter 9: Use this parameter to set the time after which you want the Mini Plug to automatically turn off once it has been turned on. The number entered as value corresponds to the number of minutes.
Values: 1 – 65535 (minutes); 150 (minutes) – default setting.
Size: 2 byte dec.

Manual Control

Parameter 10: Choose if you want to use the Z-Wave button to turn the Mini Plug 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 Mini Plug on or off remotely using your Z-Wave gateway controller.
Values: 0 – manual control disabled; 1 – manual control enabled (default)
Size: 1 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 Mini Plug 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 proof of product compliance to North American safety standards.

WARRANTY

This Limited Warranty applies to physical goods, and only for physical goods, purchased from Zooz (the "Physical Goods").

What does this limited warranty cover?

This Limited Warranty covers any defects in material or workmanship under normal use according to instructions from the User Manual during the Warranty Period. Warranty coverage applies to purchases made from authorized dealers only. See full list of Zooz distributors here: getzooz.com/buy

During the Warranty Period, Zooz will repair or replace, at no charge, products or parts of a product that prove defective because of improper material or workmanship, under normal use and recommended maintenance. Zooz does not assume the cost of return shipping for warranty service.

How long does the coverage last?

The Warranty Period for Physical Goods purchased from Zooz is 12 months from the date you purchased this product.

What does this limited warranty not cover?

This Limited Warranty does not cover any problem that is caused by:

- conditions, malfunctions or damage not resulting from defects in material or workmanship
- improper handling or installation of the product

The warranty does not cover purchases from unauthorized dealers or second-hand sources.
The warranty does not cover return shipping cost for warranty service.

What do you have to do?

To obtain warranty service, please contact us to determine the problem and offer a quick solution for you: warranty@getzooz.com

You may also get in touch with the reseller of the product directly to return or replace the product within 30 days of purchase or within applicable reseller’s returns period.

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, WHETHER IN AN ACTION IN CONTRACT, OR OTHERWISE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. ZOOZ'S LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY FOR ANY CAUSE OF ACTION ARISING IN CONNECTION 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 PORTION OF PRODUCTS WITH RESPECT TO WHICH DAMAGES 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 DELIVERY 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