



Enerwave Green Automation PLUG-IN SMART METER APPLIANCE MODULE ZWN-333M Manual

[Home](#) » [Enerwave Green Automation](#) » Enerwave Green Automation PLUG-IN SMART METER APPLIANCE MODULE ZWN-333M Manual 



Contents

- 1 Enerwave Green Automation
- 2 PLUG-IN SMART METER APPLIANCE MODULE
 - 2.1 SKU: ZWN-333M
 - 2.2 Quickstart
 - 2.3 Important safety information
 - 2.4 What is Z-Wave?
 - 2.5 Product Description
 - 2.6 Prepare for Installation / Reset
 - 2.6.1 Reset to factory default
 - 2.6.2 Safety Warning for Mains Powered Devices
 - 2.7 Inclusion/Exclusion
 - 2.7.1 Inclusion
 - 2.7.2 Exclusion
 - 2.8 Quick trouble shooting
 - 2.9 Association – one device controls an other device
 - 2.9.1 Association Groups:
 - 2.10 Configuration Parameters
 - 2.10.1 Parameter 1: LEDdirect
 - 2.11 Technical Data
 - 2.12 Explanation of Z-Wave specific terms
 - 2.13 Related Posts

PLUG-IN SMART METER APPLIANCE MODULE

SKU: ZWN-333M



Quickstart

This is a

On/Off Power Switch

for

U.S. / Canada / Mexico.

To run this device please connect it to your mains power supply.

To add this device to your network execute the following action:

Once program button is pressed and hold for 3 second, the device will enter into learn mode to accomplish adding or removing by controller. Refer to the instruction for your primary controller to access the setup function and add or remove devices.

Please refer to the

[Manufacturers Manual](#) for more information.

Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law.

The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material.

Use this equipment only for its intended purpose. Follow the disposal instructions.

Do not dispose of electronic equipment or batteries in a fire or near open heat sources.

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.



This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.

Product Description

This ZWN-333M Smart Meter Appliance Module is a Z-Wave enabled device and fully interoperable with other Z-Wave certified device from other manufacturers and/or other applications, which can report wattage energy usage or kWh energy usage to a Z-Wave gateway. In a Z-Wave network, ZWN-333M can be controlled to turn on/off to save energy, also act as a wireless repeater regardless of vendor to increase reliability of the network. With a horizontal design, the Smart Meter Appliance Module will not block other nearby AC outlets.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state**. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Reset to factory default

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

Once program button is pressed and hold for 10 second, the device will send a device reset locally notification to controller. Then clear all of information for the network, and restore factory defaults, and reset the module. Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

Safety Warning for Mains Powered Devices

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Inclusion

Once program button is pressed and hold for 3 second, the device will enter into learn mode to accomplish adding or removing by controller. Refer to the instruction for your primary controller to access the setup function and add or remove devices.

Exclusion

Once program button is pressed and hold for 3 second, the device will enter into learn mode to accomplish adding or removing by controller. Refer to the instruction for your primary controller to access the setup function and add or remove devices.

Quick trouble shooting

Here are a few hints for network installation if things don't work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Don't poll FLIRS devices.
6. Make sure to have enough mains powered device to benefit from the meshing

Association – one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective association group will receive the same wireless command, typically a 'Basic Set' Command.

Association Groups:

Group NumberMaximum NodesDescription

1	1	Z-Wave Plus Lifeline: Send device reset locally notification
2	5	StatusReport: Send basic report
3	5	PowerReport: Send meter power report

Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

IMPORTANT: Controllers may only allow configuring signed values. In order to set values in the range 128 ... 255 the value sent in the application shall be the desired value minus 256. For example: To set a parameter to 200 it may be needed to set a value of 200 minus 256 = minus 56. In case of a two byte value the same logic applies: Values greater than 32768 may be needed to be given as negative values too.

Parameter 1: LEDdirect

synchronization of load power and LED indicator.0: Power on, LED off1: Power on, LED on

Size: 1 Byte, Default Value: 0

SettingDescription

0	Power on, LED off
1	Power on, LED on

Technical Data

Hardware Platform	ZM5202
Device Type	On/Off Power Switch
Network Operation	Always On Slave
Firmware Version	HW: 1 FW: 5.10
Z-Wave Version	6.51.07
Certification ID	ZC10-16055062
Z-Wave Product Id	0x011A.0x0111.0x0101
Switch Type	Push Button with Indicator
Supported Meter Type	Electric Energy
Frequency	XXfrequency
Maximum transmission power	XXantenna

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network.
Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network.
Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.
- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.