



# Ecolink Intelligent Technology Z-Wave Plus Single Gang Toggle Wireless Light Switch TLS-ZWAVE5 Manual

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# Z-Wave Plus Single Gang Toggle Wireless Light Switch

SKU: TLS-ZWAVE5



This is a

On/Off Power Switch

for

**U.S. / Canada / Mexico.**

Please make sure the internal battery is fully charged.

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

The Z-Wave Plus Toggle Light Switch must be added to a Z-Wave Plus network prior to use. To include the device in a network both the device and the network controller must be in inclusion mode at the same time. Refer to the instructions provided by the manufacturer of your specific controller for details on initiating the controllers inclusion mode. 1)Verify that the Z-Wave Plus controller you are using is compatible with the Z-Wave Plus Decora Light Switch.2)Locate the light switch desired to be used with the Z-Wave Plus Decora Light Switch.3)Put your Z-Wave Plus Controller into add (inclusion) mode.4)Press the inclusion button on the Z-Wave Plus Decora Light Switch. (Figure 1)5)The LED on the front of the unit will turn off if successfully included into a network.

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](http://www.z-wave.info).

## Product Description

Easy to install in one minute by removing the existing switch plate and installing the Z-Wave Plus Single Gang Toggle Wireless Light Switch on the switch. No need to touch any electrical wiring. Product Specifications: For indoor use only Operating frequency: 908.42 MHz Operating temperature: 049C, 32120F (ambient temperature) Operating humidity 5-95% non-condensing 2 AA batteries Battery Life: Approximately 1 year

## 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.

The Z-Wave Plus device is automatically factory defaulted when removed from a Z-Wave Plus network. Please use this procedure only when the network primary controller is missing or otherwise inoperable.

## 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

The Z-Wave Plus Toggle Light Switch must be added to a Z-Wave Plus network prior to use. To include the device in a network both the device and the network controller must be in inclusion mode at the same time. Refer to the instructions provided by the manufacturer of your specific controller for details on initiating the controllers inclusion mode. 1) Verify that the Z-Wave Plus controller you are using is compatible with the Z-Wave Plus Decora Light Switch. 2) Locate the light switch desired to be used with the Z-Wave Plus Decora Light Switch. 3) Put your Z-Wave Plus Controller into add (inclusion) mode. 4) Press the inclusion button on the Z-Wave Plus Decora Light Switch. (Figure 1) 5) The LED on the front of the unit will turn off if successfully included into a network.

### Exclusion

1) Any Z-Wave Plus Device can be removed from any Z-Wave Plus controller. Follow the directions to put your Z-Wave Plus Controller into exclusion mode. 2) Press the inclusion / exclusion button on the Z-Wave Plus Decora Light Switch.

## 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. Dont 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 wireless command, typically a 'Basic Set' Command.

### Association Groups:

Group Number Maximum Nodes Description

2	5	Z-Wave Plus Lifeline
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### Technical Data

Hardware Platform	ZM5202
Device Type	On/Off Power Switch
Network Operation	Listening Sleeping Slave
Firmware Version	HW: 255 FW: 10.01
Z-Wave Version	6.51.09
Certification ID	ZC10-17025450
Z-Wave Product Id	0x014A.0x0006.0x0002
Firmware Updatable	Updatable by Consumer by RF
Switch Type	Toggle
Color	White
Frequency	XXfrequency
Maximum transmission power	XXantenna

### Supported Command Classes

- Association Grp Info
- Association V2
- Basic
- Battery
- Device Reset Locally
- Manufacturer Specific
- Powerlevel

- Switch Binary
- Version V2
- Zwaveplus Info V2

## 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 announce that it is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.