

GE 4 Scene Z-Wave controller 34176/ZW5306 Manual

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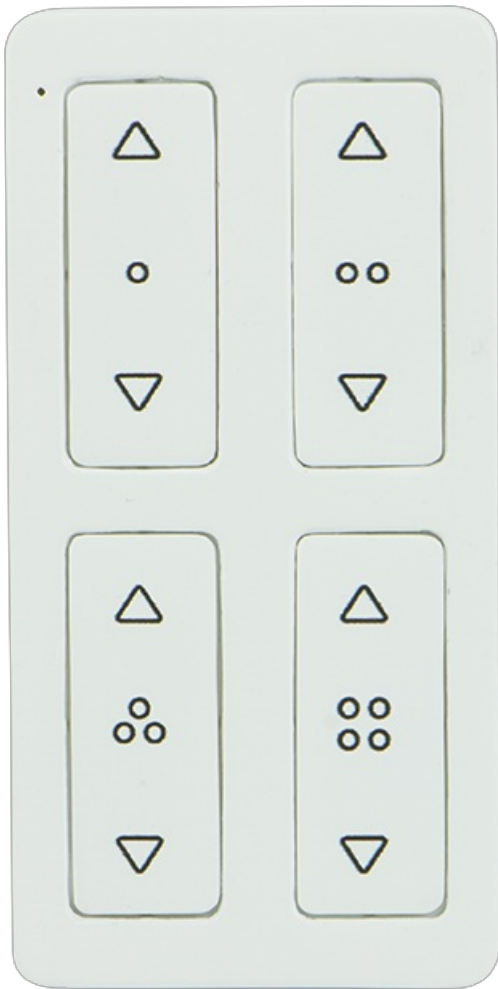
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GE

4 Scene Z-Wave controller

SKU: 34176/ZW5306





Quickstart

This is a

Remote Control – Multi Purpose
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:

This will copy the network and device information from your existing hub/primary controller to the scene controller, making it a secondary controller. 1. Following the manufacturers guidelines to place your existing primary controller or hub into inclusion mode. 2. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second. 3. Press and hold the “^” button on Scene 2 and Scene 4 for three (3) seconds. The LED will flash for ten (10) seconds. 4. Press and release the “v” button on Scene 1 to set the device as a receiver. The LED will slowly flash every second. If network transfer was successful, the LED will turn on for two (2) seconds.

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

Custom lighting control is at your fingertips with the GE-branded Z-Wave Wireless Quad Scene Remote. This versatile remote communicates directly with your Z-Wave devices to create four unique, one touch lighting scenes as well as to wirelessly dim or brighten light levels in your home. Once the remote is paired with your devices, you can begin programming the lights to personalize your indoor space. The wireless lighting control has a range of up to 150 feet and can control as many as twenty Z-Wave enabled devices per scene. Enjoy a variety of placement options for your lighting control utilize the included hardware and standard wallplate for wall mounting, detach the remote from the magnetic wall mount for instant portability or pair the remote with a separate stand for convenient tabletop use. The remote also functions on a scalable system, giving you the freedom to start with one remote and add as many as you need. Take control of your lights with the Z-Wave Wireless Quad Scene Remote.

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.

Note: All Z-Wave device connections and scenes will be lost in the reset. If the controller is setup as the primary controller after performing a reset, each Z-Wave device that was previously in the network will need to be individually reset or excluded from the network before it can be included again. The steps for resetting and reconnecting each smart device differ, please refer to the device manufacturer for reset instructions. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable. 1. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second. 2. Press and hold the “v” button on Scene 2 and Scene 4 for three (3) seconds. The LED will quickly flash three (3) times.

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

This will copy the network and device information from your existing hub/primary controller to the scene controller, making it a secondary controller. 1. Following the manufacturer's guidelines to place your existing primary controller or hub into inclusion mode. 2. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second. 3. Press and hold the “v” button on Scene 2 and Scene 4 for three (3) seconds. The LED will flash for ten (10) seconds. 4. Press and release the “v” button on Scene 1 to set the device as a receiver. The LED will slowly flash every second. If network transfer was successful, the LED will turn on for two (2) seconds.

Exclusion

This will copy the network and device information from your existing hub/primary controller to the scene controller, making it a secondary controller. 1. Following the manufacturer's guidelines to place your existing primary controller or hub into inclusion mode. 2. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second. 3. Press and hold the “v” button on Scene 2 and Scene 4 for three (3) seconds. The LED will flash for ten (10) seconds. 4. Press and release the “v” button on Scene 1 to set the device as a receiver. The LED will slowly flash every second. If network transfer was successful, the LED will turn on for two (2) seconds.

Communication to a Sleeping device (Wakeup)

This device is battery operated and turned into deep sleep state most of the time to save battery life time. Communication with the device is limited. In order to communicate with the device, a static controller **C** is needed in the network. This controller will maintain a mailbox for the battery operated devices and store commands that can not be received during deep sleep state. Without such a controller, communication may become impossible and/or the battery life time is significantly decreased.

This device will wakeup regularly and announce the wakeup state by sending out a so called Wakeup Notification. The controller can then empty the mailbox. Therefore, the device needs to be configured with the desired wakeup interval and the node ID of the controller. If the device was included by a static controller this controller will usually perform all necessary configurations. The wakeup interval is a tradeoff between maximal battery life time and the desired responses of the device. To wakeup the device please perform

the following action:

1. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second.
2. Press and hold the “v” button on Scene 1 and Scene 3 for three (3) seconds. The LED will light for two (2) seconds. If the setup is successful, the keypad will stay awake for 30 seconds. During sleep mode, the controller will sleep again within two (2) seconds after any button is pressed.

Quick trouble shooting

Here are a few hints for network installation if things dont 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

Group Number	Maximum Nodes	Description
1	1	Lifeline COMMAND_CLASS_BATTERY, BATTERY_REPORT COMMAND_CLASS_DEVICE_RESET_LOCALLY, DEVICE_RESET_LOCALLY_NOTIFICATION

Special Operations as Z-Wave Controller

As long as this device is not included into a Z-Wave network of a different controller it is able to manage its own Z-Wave network as primary controller. As a primary controller the device can include and exclude other devices in its own network, manage associations, and reorganize the network in case of problems. The following controller functions are supported:

Inclusion of other devices

Communication between two Z-Wave devices only works if both belong to the same wireless network. Joining a network is called inclusion and is initiated by a controller. The controller needs to be turned into the inclusion mode. Once in this inclusion mode the other device needs to confirm the inclusion – typically by pressing a button.

If current primary controller in your network is in special SIS mode this and any other secondary controller can also include and exclude devices.

To become primary a controller have to be resetted and then include a device.

This step will add devices to a Scene button. You must complete all steps in this box within 20 seconds or the

controller will time out. Please familiarize yourself with these steps before you begin programming.

1. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second.
2. Select the scene you want to add to the device. Press and release the “^” button on Scene 1, 2, 3 or 4. The LED will quickly flash for 20 seconds.
3. Locate the manual/program button on the Z-Wave module/switch you are adding to the scene controller. Follow the instructions for your Z-Wave device to add it to the scene (same as adding to a hub). The LED will quickly flash.
4. Using the manual/program button on the module/switch, adjust the light to your desired level of brightness. The LED will quickly flash.
5. Press and release the “^” button on Scene 1 to exit programming. The LED will turn on for two (2) seconds.

Exclusion of other devices

The primary controller can exclude devices from the Z-Wave network. During exclusion the relationship between the device and the network of this controller is terminated. No communication between the device and other devices still in the network can happen after a successful exclusion. The controller needs to be turned into the exclusion mode. Once in this exclusion mode the other device needs to confirm the exclusion – typically by pressing a button.

Attention: Removing a device from the network means that it is turned back into factory default status. This process can also exclude devices from it’s previous network.

1. Press and hold the “^” button on Scene 1 and Scene 3 for three (3) seconds. The LED will slowly flash every second.
2. Select the scene you want to remove the device from. Press and release the “^” button on Scene 1, 2, 3 or 4. The LED will quickly flash for 20 seconds.
3. Press and release the manual/program button on the Z-Wave module/switch to remove it from network. The LED will turn on for two (2) seconds.

Technical Data

Hardware Platform	ZM5202
Device Type	Remote Control – Multi Purpose
Network Operation	Portable Controller
Firmware Version	HW: 255 FW: 5.05
Z-Wave Version	6.51.09
Certification ID	ZC10-18096226
Z-Wave Product Id	0x0063.0x4843.0x3035
Firmware Updatable	Updatable by Manufacturer
Color	White
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

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

- Powerlevel
- Version V2
- Zwaveplus Info V2

Controlled Command Classes

- Basic
- Switch Multilevel
- Wake Up 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.