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Enbrighten In-Wall Smart Switch (120/277VAC) 43072/ZW4008DV Manual

Contents

Enbrighten

In-Wall Smart Switch (120/277VAC)

SKU: 43072/ZW4008DV

Quickstart

This is a
secure
On/Off Power Switch
for
.

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

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

In-Wall Smart Switch (120/277VAC) with QuickFit and SimpleWire enhancements. Revolutionary QuickFit design
features a housing depth that is up to 20 percent smaller than the previous Z‑Wave models. This reduced size
coupled with the elimination of heat taps provides a better fit in older style boxes and multi-gang configurations.
SimpleWire technology allows line and load to automatically be configured with auto-sensing line-load terminals.
All of this is coupled with Z‑Wave S2 and SmartStart allows for effortless installation while being safer than ever!

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.

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.

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 NumberMaximum NodesDescription

1	5	Z-Wave Plus Lifeline
2	5	Supports Basic Set and is controlled by pressing the ON or OFF button with the local load.
3	5	Supports Basic Set and is controlled by double pressing the ON or OFF button.

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 200â€ˆit 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 needed to be given as negative values too.

Parameter 19: Alternate Exclusion

Default – normal exclusionActive – perform a series of button presses to help eliminate accidental exclusion
Size: 1 Byte, Default Value: 0

SettingDescription

0	Press any button on the switch
1	Press two times ON button and two time OFF button, LED will flash 5 times if successful

Parameter 3: LED Indication Configuration

Configure LED indication to default, invert, always off or always on
Size: 1 Byte, Default Value: 0

SettingDescription

0	LED ON when device is OFF, LED is OFF when device is ON
1	LED ON when device is ON, LED is OFF when device is OFF
2	LED always OFF
3	LED Always ON

Technical Data

Hardware Platform	ZM5202
Device Type	On/Off Power Switch
Network Operation	Always On Slave
Firmware Version	HW: 255 FW: 5.54
Z-Wave Version	6.81.03
Certification ID	ZC10-21047023
Z-Wave Product Id	0x0063.0x4952.0x3139
Firmware Updatable	Updatable by Consumer by RF
Z-Wave Scene Type	Scene & Central Scene
Neutral Wire Required	ok
Security V2	S2_UNAUTHENTICATED ,S2_AUTHENTICATED
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Application Status
- Association Grp Info
- Association V2
- Basic V2
- Central Scene V3
- Configuration V4
- Device Reset Locally
- Firmware Update Md V4
- Manufacturer Specific V2
- Powerlevel
- Scene Activation
- Scene Actuator Conf
- Security 2
- Supervision
- Switch Binary V2
- Transport Service V2
- Version V3
- Zwaveplus Info V2

Controlled Command Classes

- Basic 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 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.