

## Z-Wave Home Automation Solutions

Being one of the most advanced Home Automation systems to date, Z-Wave is dependable, affordable and most importantly easy to assemble without laying down expensive cables.

The whole Z-Wave Home Automation system is based around the central home controller (e.g. Vera or Fibaro Home Center). It monitors the states of the devices around it and sends the information to the central controller, using a secure encrypted channel, or to your smartphone or PC using an internet connection. It allows the user to remotely change the state of their devices using a smartphone by first decrypting a message and then forwarding it to the desired device. The central home controller can also be set to automatically turn devices ON/OFF when a sensor is tripped.

AC powered Z-Wave devices are not only able to communicate with the home controller but also any nearby devices in the network. They are also capable of forwarding commands from the home controller to neighboring devices, effectively increasing the range of your network and assuring its responsiveness is not only fast but also reliable.

For example you can configure your Z-Wave system to automatically turn on the siren when a motion sensor is tripped. You can also configure your Z-Wave network to send you automated notifications via SMS or email and to save pictures or footage depending on which devices become tripped in your home. You can arm or disarm your system on the go with your smart phone or at home with a conveniently placed switch. You can schedule your light to turn ON and OFF depending on the time of the day or using other triggers such as natural light intensity or motion. Not only does Z-Wave allow you to remotely monitor and control your home it also allows you to create unlimited scenarios to enhance your way of life. You can automatically switch on your sirens when an alarm is triggered or turn off your child's night lamp when they fall asleep. The list is endless...

You don't have to build your entire home automation system in one go. You can add new devices to your Z-Wave network whenever you wish allowing you to tailor your system to your ever-changing needs.



## Package Contents

- Z-Wave Smoke Sensor
- This manual

## Specifications:

Item	Description
RF Protocol	Z-Wave (Binary Command Class)
Z-Wave device type	Z-Wave Sensor Alarm
Operating Voltage	9V
RF Frequency	921.42Mhz AU/NZ
Operating humidity:	30% to 80%
Operation Range	Up to 30m with no obstacles
Application	Indoor use only
Operation Temperature	0 ° C to 50 ° C
Storage Temperature	10 ~ 80 ° C
Weight	130g
Housing	ABS
<b>WARNING!</b> This product is NOT compliant under Australian standards and is not to be used as a Primary Smoke detection device	

### Specifications are subject to change without further notice

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## Quick Installation Guide



## Z-Wave Smoke Sensor

CATALOGUE NO:  
DHS-SNS-SM-DHS

# 1 Installation

## Mounting

Unlock the back bracket.

Use the designated holes on the back bracket to screw mount it in desired location.

For optimal use, mount the Smoke Sensor on the ceiling.

Place one 9V battery into the Smoke Sensor.

Mount the Smoke Sensor onto the back bracket.

After a few seconds the Smoke Sensor is ready.

## Inclusion/exclusion into a Z-Wave network

### Network Wide Inclusion method (NWI)

1. When the Smoke Sensor is not yet included in a Z-Wave network, NWI procedure will start automatically for 120 seconds after powering on the Smoke Sensor (connecting a battery).

2. Make sure your Z-Wave controller is in the correct operating mode (inclusion) just before the Smoke Sensor is powered and the inclusion process will start automatically. Please check the status of inclusion on your Z-Wave home controller.

### Normal include or exclude method

1. Make sure your Z-Wave home controller is in the right operation mode (include or exclude).

2. Press and hold the push button for 1 second and release to start the inclusion or exclusion process (indication mode: Ready for learn mode).

### Associations

You can add associated security devices to your Smoke Sensor. Press and hold the push button for more than 5 seconds and release to test whether the security devices associated with your Smoke Sensor work properly.



# 2 Operation

## Manual control

1. When you press the push button, the Smoke Sensor will beep and the indicator light will blink immediately.
2. Release the push button to clear trigger status.

## Smoke Trigger

1. When smoke is detected, the Smoke Sensor will beep and the indicator light will blink.
2. The Smoke Sensor won't stop beeping unless smoke has disappeared or the battery is removed for a short while (hardware reset).

## Security system test within Z-Wave network

1. To test the sensor connection with your Z-Wave home controller (e.g. VeraEdge) press and hold the push button for at least 5 seconds until the indicator is continuously ON for about 1.5 sec.
2. Check if your Z-Wave home controller has seen that the device is triggered.
3. To remove the triggered status, hold the push button for about half a second (one or two beeps only).
4. Check if your Z-Wave home controller that the device is in un-triggered status.

## Indication modes

The indicator gives various statuses of the device as follows:

1. Automatically add: blinks 120 seconds.
2. Learn in progress (add): Indicator light blinks 1 time.
3. Learn in progress (remove): Indicator light blinks 1 second (8 times).
4. Learn mode success: Indicator light is on for 1 second.
5. Learn mode failed: Indicator light blinks fast.

## Supporting Command Classes

Basic Device Class: BASIC\_TYPE\_ROUTING\_SLAVE

Generic Device Class: GENERIC\_TYPE\_SENSOR\_ALARM

Specific Device Class: SPECIFIC\_TYPE\_BASIC\_ROUTING\_SMOKE\_SENSOR

Listening: TRUE, Z-Wave Lib: 4.51

Command Classes: 71 85 80 72 30 86 84

Class: 0x71 COMMAND\_CLASS\_ALARM

Class: 0x85 COMMAND\_CLASS\_ASSOCIATION

Class: 0x80 COMMAND\_CLASS\_BATTERY

Class: 0x72 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC

Class: 0x30 COMMAND\_CLASS\_SENSOR\_BINARY

Class: 0x86 COMMAND\_CLASS\_VERSION

Class: 0x84 COMMAND\_CLASS\_WAKE\_UP

# 3 Troubleshooting

**NOTE:** Before including the product to your Z-Wave network it is advised to perform the exclusion procedure to reset network settings.

## Frequently Asked Questions

Q: I can't include my Z-Wave Smoke Sensor into my Z-Wave network, what am I doing wrong?

A1. Check that your home controller is set to inclusion mode.

A2. The Z-Wave Smoke Sensor may already be included in a different Z-Wave network. Perform the exclusion procedure and then attempt to include the Z-Wave Smoke Sensor again.

Q: Why doesn't the Z-Wave Smoke Sensor detect any smoke?

A1. The connection between your Z-Wave Smoke Sensor and home controller may have been broken. Ensure that the smoke sensor is within range of your home controller or a Z-Wave device capable of acting as a repeater is added between the smoke sensor and your gateway, then exclude and re-include the smoke sensor into your Z-Wave network.

2. The battery is almost empty, try replacing it.

Q: Why does the push button on the Z-Wave Smoke Sensor not work?

A: Check that Z-Wave Smoke Sensor's battery is new and properly connected.

Q: Why does the indicator light not work?

A: Check that Z-Wave Smoke Sensor's battery is new and properly connected. The indicator light will not work if there is no power supplied to the Z-Wave Smoke Sensor.

This device is using a radio signal that passes through walls, windows and doors. The range can be influenced by local conditions such as large metal objects, house wiring, concrete, furniture, refrigerators, microwaves and similar items. On average, the indoor range is approximately 12- 30 meters.

Do not expose this product to excessive heat or moisture.

Prevent long term exposure to direct sunlight.

Do not attempt to repair this product. If the product is damaged or if you are in doubt about the proper operation, take the product back to the place of purchase.

Do not clean the product with any liquid.

Do not paint.