



B.One Smart Sensor B1SS02-ZW-AU Manual

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B.One Smart Sensor

SKU: B1SS02-ZW-AU





Quickstart

This is a
secure
Alarm Sensor
for
Australia, NZL, Brasil, etc..

Please make sure the internal battery is fully charged.

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

1. Insert the AAA battery.
2. Set the Z-Wave network main controller into learning mode.
3. Triple or single short press the Z-button.
4. If the add for inclusion is successful, the LED will blink less than 5 seconds and then keep on 3 seconds. Otherwise, the LED will blink 5 seconds and then turn off, in which case you need to repeat the process from step 2.

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

B.One Smart Sensor is a wireless reed sensor powered by AAA battery. It is used for detecting the opening or closing of doors, windows. It can communicate with an associated Z-Wave device, such as Siren, Smart Switch, etc.

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.

1.Insert the AAA battery.2.Pressing and holding the Z button for more than 20 seconds,3.Led will keep on until the Z-Button is released, and it will reset to factory default when the button is released.Using this procedure only in the event that 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

1.Insert the AAA battery.2.Set the Z-Wave network main controller into learning mode.3.Triple or single short press the Z-button.4.If the add for inclusion is successful, the LED will blink less than 5 seconds and then keep on 3 seconds. Otherwise, the LED will blink 5 seconds and then turn off, in which case you need to repeat the process from step 2.

Exclusion

1.Insert the AAA battery.2.Set the Z-Wave network main controller into learning mode.3.Triple clicking the Z-button.4.If the remove for exclusion, the LED will turn off within 1 second. Otherwise, the LED will blink 5 seconds and then turn off, in which case you need to repeat the process from step 2.

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
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1	5	Door/Window Sensor will send notification report and battery report to the associated nodes.
2	5	Sensor will send Basic Set to the associated nodes when the sensor body and magnet removed or combined.

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 needed to be given as negative values too.

Parameter 14: Enable/Disable BASIC SET command

Door/Window Sensor can send BASIC SET command to nodes associated with group 2.

Size: 1 Byte, Default Value: 0

SettingDescription

0	The function is disabled
1	The function is enabled.

Parameter 15: Value of the BASIC SET

Door/Window Sensor can reverse its value of BASIC SET when the magnet is triggered.

Size: 1 Byte, Default Value: 0

SettingDescription

0	Send BASIC SET VALUE = 255 to nodes associated with group 2 when door/window is opened. Send BASIC SET VALUE = 0 to nodes associated with group 2 when door/window is closed.
1	Send BASIC SET VALUE = 0 to nodes associated with group 2 when door/window is opened. Send BASIC SET VALUE = 255 to nodes associated with group 2 when door/window is closed.

Parameter 32: Level of low battery

This parameter defines a battery level as the low battery.

Size: 1 Byte, Default Value: 20

SettingDescription

10 – 50	the value here defines the "low battery";
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Technical Data

Hardware Platform	ZM5202
Device Type	Notification Sensor
Network Operation	Reporting Sleeping Slave
Firmware Version	HW: 1 FW: 1.04
Z-Wave Version	6.51.08
Certification ID	ZC10-18025994
Z-Wave Product Id	0x0311.0x0001.0x0201
Supported Notification Types	Access ControlHome Security
Sensors	Open/Closed (Binary)
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Association Grp Info
- Association V2
- Battery
- Configuration
- Device Reset Locally
- Firmware Update Md V2
- Manufacturer Specific V2
- Notification V5
- Powerlevel
- Security
- Version V2
- Wake Up V2
- Zwaveplus Info V2

Controlled Command Classes

- Basic

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.