Jasco Products Company Slim Smart Door/Window Sensor 43973/ZW6305 Manual

Contents

Jasco Products Company

Slim Smart Door/Window Sensor

SKU: 43973/ZW6305

Quickstart

This is a
secure
Alarm Sensor
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:
Automatic mode1. Follow the instructions for your Z-Wave certified controller to add the sensor in the Z-Wave network.2. Once the controller is ready to add your sensor, slide the battery door down and remove (if not mounted to door or window).3. Remove the plastic battery tab. This activates the sensor and starts the auto-add process. The red LED will begin to flashquickly as it searches for a network. The sensor will attempt to search for a network for two minutes, after which, it will time out.4. The red LED will continue to flash quickly after it locates a networkthe controllers app will indicate if it has discovered the sensor. If prompted by the controller to enter the S2 security code, refer to the QR code/security number on the back of the box, or the QR code label on the product. Enter the 5-digit code.5. The red LED will activate for 3 seconds to confirm the sensor has been added in the network.Manual mode1. Follow the instructions for your Z-Wave certified controller to add the sensor in the Z-Wave network.2. Once the controller is ready to add your sensor, ensure battery is installed with the correct polarity in the sensor and the battery tab has been removed.3. Press and release the programming button. This starts the manual add process. The red LED will begin to flash quickly as it begins the add process.4. The red LED will activate for 3 seconds to confirm the sensor has been added in the network.5. The controllers app will indicate if it has discovered the sensor. If prompted by the controller to enter the S2 security code, refer to the QR code/security number on the back of the box, or the QR code label on the product. Enter the 5-digit code.

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

By simply opening or closing your door or window, the sensor uses Z-Wave technology to wirelessly trigger scenes throughout your home. From your mobile device, youre able to schedule lights to turn on as soon as you walk in and be notified of activity while youre away. The sensor is discreetly designed to blend subtly into the frame of the door, adding the convenience of the Smart Door/Window Sensor to your home without distracting from your household decor.

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. Press the programming button 10 times within 6 seconds (interval between presses of the button cannot be longer than 1 second).2. The red LED will activate for 2 seconds, followed by 3 quick flashes.- 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

Automatic mode1. Follow the instructions for your Z-Wave certified controller to add the sensor in the Z-Wave network.2. Once the controller is ready to add your sensor, slide the battery door down and remove (if not mounted to door or window).3. Remove the plastic battery tab. This activates the sensor and starts the auto-add process. The red LED will begin to flashquickly as it searches for a network. The sensor will attempt to search for a network for two minutes, after which, it will time out.4. The red LED will continue to flash quickly after it locates a networkthe controllers app will indicate if it has discovered the sensor. If prompted by the controller to enter the S2 security code, refer to the QR code/security number on the back of the box, or the QR code label on the product. Enter the 5-digit code.5. The red LED will activate for 3 seconds to confirm the sensor has been added in the network.Manual mode1. Follow the instructions for your Z-Wave certified controller to add the sensor in the Z-Wave network.2. Once the controller is ready to add your sensor, ensure battery is installed with the correct polarity in the sensor and the battery tab has been removed.3. Press and release the programming button. This starts the manual add process. The red LED will begin to flash quickly as it begins the add process.4. The red LED will activate for 3 seconds to confirm the sensor has been added in the network.5. The controllers app will indicate if it has discovered the sensor. If prompted by the controller to enter the S2 security code, refer to the QR code/security number on the back of the box, or the QR code label on the product. Enter the 5-digit code.

Exclusion

1. Follow the instructions for your Z-Wave certified controller to remove the sensor from the Z-Wave network.2. Once the controller is ready to remove your sensor, press and release the programming button on the sensor 1 time to remove it from the network.3. The red LED will blink 5 times to indicate it has been removed.

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 |

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 1: Reverse open/close detection

This parameter allows you to reverse the detection values of the device.
Size: 1 Byte, Default Value: 0

SettingDescription

| 0 | (Default) Disabled |
| 1 | Reverse event (Open 16, Close 17) |

Parameter 19: Alternate exclusion

This parameter allows you to enable the alternate exclusion method that is available for this device.
Size: 1 Byte, Default Value: 0

SettingDescription

| 0 | (Default) Disabled |
| 1 | Enabled |

Parameter 20: Inclusion Configuration

This parameter allows you to change the inclusion configuration settings of this device.
Size: 1 Byte, Default Value: 1

SettingDescription

1	(Default) – Notification Only
2	Notification and Basic Report

Parameter 21: LED Control (Magnet triggers only)

This parameter gives you the option to turn the LED off on magnetic triggers.
Size: 1 Byte, Default Value: 0

SettingDescription

0	(Default) – Enabled
1	Disabled

Parameter 23: Battery Report Interval

This parameter allows you to choose how often the battery level is reported.
Size: 2 Byte, Default Value: 1440

SettingDescription

5 – 60	5-60 Minutes
360	6 Hours
720	12 Hours
1440	(Default) Daily

Parameter 53: Tamper LED Control

This parameter allows you to choose how often the LED will flash once the device/battery cover is tampered with.
Size: 1 Byte, Default Value: 1

SettingDescription

1	(Default) Continuous Flash
2	Flashes once, on initial tamper only

Technical Data

Hardware Platform	ZM5202
Device Type	Notification Sensor
Network Operation	Reporting Sleeping Slave
Firmware Version	HW: 255 FW: 5.55
Z-Wave Version	6.81.01
Certification ID	ZC10-19016363
Z-Wave Product Id	0x0063.0x4953.0x3235
Firmware Updatable	Updatable by Consumer by RF
Sensors	Open/Closed (Binary)
Supported Notification Types	Home Security
Security V2	S2_UNAUTHENTICATED ,S2_AUTHENTICATED
Frequency	XXfrequency
Maximum transmission power	XXantenna

Supported Command Classes

- Association Grp Info
- Association V2
- Battery
- Configuration V4
- Device Reset Locally
- Firmware Update Md V4
- Manufacturer Specific V2
- Notification V8
- Powerlevel
- Security 2
- Supervision
- Transport Service V2
- Version V3
- Wake Up 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 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.