



## WISEZM1601-5 Z-Wave Security Siren

**Firmware Version : 15.5**



### Quick Start

The siren can be included into any Z-Wave network by setting the controller into the inclusion mode. Once your controller is ready open the bracket and press the program switch on the back of the siren for at least one second and release it. If the inclusion was successful the LED Setting light will go off. If not, please try again.

Please refer to the chapters below for detailed information about all aspects of the products usage.

### What is Z-Wave?

This device is equipped with wireless communication complying to the Z-Wave standard. Z-Wave is the **international standard for wireless communication** in smart homes and buildings. It is using the **frequency of 868.42 MHz** to realize a very stable and secure communication. Each message is reconfirmed (**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.

Z-Wave differentiates between Controllers and Slaves. Slaves are either sensors (**S**) transmitting metered or measured data or actuators (**A**) capable to execute an action. Controllers are either static mains powered controllers (**C**) also referred to as gateways or mobile battery operated remote controls(**R**). This results in a number of possible communication patterns within a Z-Wave network that are partly or completely supported by a specific device.

1. Controllers control actuators
2. Actuators report change of status back to controller
3. Sensors report change of status of measured values to controller
4. Sensors directly control actuators
5. Actuators control other actuators
6. Remote controls send signals to static controllers to trigger scenes or other actions
7. Remote controls control other actuators.



There are two different role a controller can have. There is always one single primary controller that is managing the network and including/excluding devices. The controller may have other functions - like control buttons - as well. All other controllers don't manage the network itself but can control other devices. They are called secondary controllers. The image also shows that its not possible to operate a sensor just from a remote control. Sensors only communicate with static controllers.

## Product description

The Vision Siren is designed to enhance every Z-Wave based alarm system. It has a sound and strobe alarm to make sure you notice when it is activated. It is fully compatible with every other Z-Wave device and network. Every main powered Z-Wave device will act as a repeater to extend the range of the network. The Vision Siren will sound a loud alarm and flash a strobe light whenever an alarm message or alert is received in the network. If your controller supports Z-Wave Plus all communication between the siren and the controller will be encrypted.

## Before Device is installed

Please read carefully the enclosed user manual before installation of the radio-actuator, in order to ensure an error-free functioning.

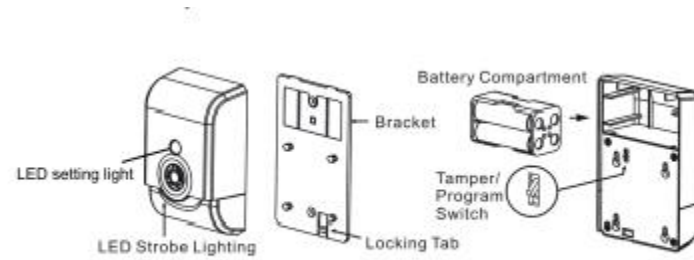
**ATTENTION:** only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with 230 Volt mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

The product is permitted only for proper use as specified in the user manual. Any kind of guarantee claim has to be forfeited if changes, modifications or painting are undertaken. The product must be checked for damages immediately after unpacking. In the case of damages,

the product must not be operated in any case. If a danger-free operation of the equipment cannot be assured, the voltage supply has to be interrupted immediately and the equipment has to be protected from unintended operation.

## Installation Guidelines

Remove the bracket from the siren by pressing the locking tab and then gently sliding it up the siren. Remove the two screws as shown below and pull out the plastic case. Put in the batteries and put the plastic case back in. Fasten the screws and slide the cover back on. You can now either use the adhesive tape or the enclosed screws to mount the siren to any place on a wall.



## Behavior within the Z-Wave network

On factory default the device does not belong to any Z-Wave network. The device needs to join an existing wireless network to communicate with the devices of this network. This process is called **Inclusion**. Devices can also leave a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller will be turned into inclusion or exclusion mode. Please refer to your primary controllers manual on how to turn your controller into inclusion or exclusion mode. Only if the primary controller is in inclusion or exclusion mode, this device can join or leave the network. Leaving the network - i.e. being excluded - sets the device back to factory default.

If the device already belongs to a network, follow the exclusion process before including it in your network. Otherwise inclusion of this device will fail. If the controller being included was a primary controller, it has to be reset first.

The siren can be included into any Z-Wave network by setting the controller into the inclusion mode. Once your controller is ready open the bracket and press the program switch on the back of the siren for at least one second and release it. If the inclusion was successful the LED Setting light will go off. If not, please try again. The siren can be excluded from the network it is currently included into by removing the bracket and setting the controller into exclusion mode. As with the inclusion simply press the program switch on the back of the device for at least one seconds and release it. The LED setting light will flash to indicate a successful exclusion. After this the device will be in the factory default state.

## Operating the device

The Vision Siren can be included into any Z-Wave network where it extends that networks security functions. The siren will sound a loud alarm and flash a strobe lightning whenever it is activated. The siren is activated if either the controller triggers the siren or an alarm message is send by another device in the network. This way the siren will always know when something is happening. The controller can activate the siren over scenes you define with the interface. For example you could define a scene that you activate whenever you leave the house. If a motion sensor recognizes a motion while you are away this can be used as trigger for the siren.

## Associations

**A** 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 a common wireless command.

Association Groups:

1	Group 1 (max. nodes in group: 5)
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## 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 to configure 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 two byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too.

#### Siren/Strobe Mode (Parameter Number 1, Parameter Size 1)

Value	Description
0	Siren and Strobe enable (Default)
1	Siren only
2	Strobe only

#### Alarm auto stop time command (Parameter Number 2, Parameter Size 1)

Value	Description
0	30 seconds (Default)
1	60 seconds
2	120 seconds
3	Siren will not automatically stop

## Command Classes

### Supported Command Classes

- Basic (version 1)
- Binary Switch (version 1)
- Association Group Information (version 1)

- Device Reset Locally (version 1)
- Z-Wave Plus Information (version 2)
- Configuration (version 1)
- Alarm (version 4)
- Manufacturer Specific (version 2)
- Powerlevel (version 1)
- Firmware Update Meta Data (version 2)
- Association (version 2)
- Version (version 2)

## Technical Data

Explorer Frame Support	No
SDK	
Device Type	Slave with routing capabilities
Generic Device Class	Binary Switch
Specific Device Class	
Routing	Yes
FLiRS	No
Firmware Version	15.5

## 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 bringing 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.

## Disposal Guidelines

The product does not contain hazardous chemicals.

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.