SIREN ALARM

User **Manual**

Thank you for your support!

Please read the user manual carefully before operating the device. Please keep the user manual for future reference.

Product Introduction

The siren alarm is an intelligent device that can be controlled remotely by the radio frequency. The siren alarm sends messages via a Z-Wave network to a Z-Wave controller. In the Z-Wave network communication, the siren alarm can be connected to any Z-Wave controller.

In different countries or areas, the radio frequency may be different.

In the communication between the siren alarm and Z-Wave controller, the siren alarm can both send and receive messages to / from the Z-Wave controller. When the code button of siren alarm is pressed, it will send message to the Z-Wave controller and the Z-Wave controller can display the on/off status of the siren alarm. When the siren alarm receives messages from the Z-Wave controller, the siren alarm will be triggered. The siren alarm is battery powered, small and easy to install. When the siren alarm is triggered, the LED light will flash and the alarm will sound at the same time. The sound is not lower than 90 decibels.

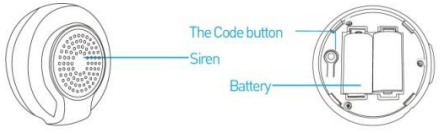
Technical Parameters

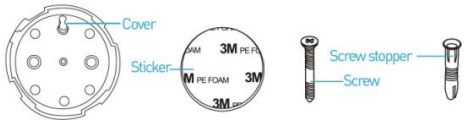
- Power supply: 2x CR123A
- Battery life: ~ 1 year
- Radio Protocol: Z-Wave
- Compatible with: Z-Wave 300 series and 500 series
- Radio Frequency: 868.4 MHz EU; 908.4 MHz US
- Wireless range: up to 70 m outdoor, up to 50 m indoor
- Power consumption: 2 W
- Max. current: 35 mA (in radio transmitter mode)
  500 mA (siren on and max volume)
- Sounds: 10 music tunes can be selected
- Sound intensity: > 90 dB
- Operating temperature: 0 - 40 °C
- Storage temperature: 0 - 60 °C
- Size (D x W x H): 70 x 68 x 31 mm

Technical Information

- Easy installation on a wall or any surface
- When an alarm is triggered, the siren sounds and LED light flashes
- When other sensors are triggered, the siren alarm can associate with these sensors through a Z-Wave network
- The siren alarm can be controlled remotely via mobile phone app
- Compatible with any Z-Wave network

Product Configuration





Items List

Siren alarm	1 piece
Batteries CR123A	2 pieces
Screw / Screw stopper	3 pieces each
Sticker (double-side adhesive tape)	1 piece
User manual	1 piece

Installation Steps

- Siren alarm Installation
- Battery Installation

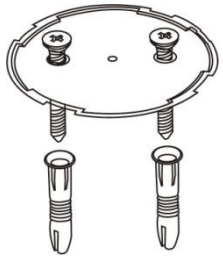
Siren alarm Installation

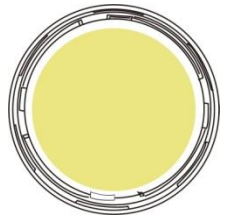
Option One

Open the bottom of the siren alarm and fix it with screws.

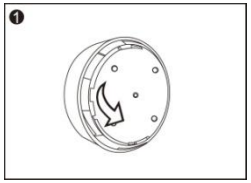
Option Two

Fix the siren alarm with the sticker (double-side adhesive tape)

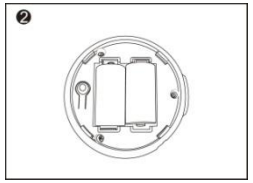




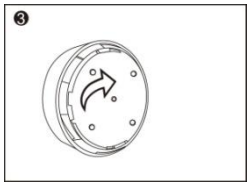
Battery Installation



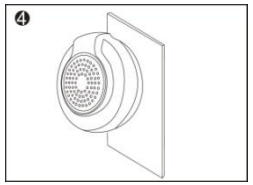
Open the siren alarm



Install the batteries



Close the siren alarm



Installation example

Battery Usage Tips

The battery life of the siren alarm is approximately 1 year. The current battery level can be displayed in the Z-Wave controller. A red LED means the battery needs replacing, and an app would receive a message “power level low, please replace the battery” from the controller.

NOTE: The siren alarm is battery powered. Please use batteries in a correct way to avoid explosion. Dispose of batteries properly. For handling batteries please refer to environmental laws.

Tips

1. Try to avoid the installation of the siren alarm in noisy places.
2. Try to install the siren alarm somewhere easy to find.
3. Try to avoid the installation in a ventilated position as the effect of the siren alarm can be affected.
4. Do not install in a wet place to prevent the siren alarm from damage.
5. When the siren alarms, it will sound and the LED will flash red.
6. Association allows for direct communication between Z-Wave network devices. The controller does not take part in such communication. Using this mechanism, the siren alarm can communicate with other devices even when the controller is damaged.

The status of the LED

Color	LED Display Status	Description
Red	Blink 5 times (1s Interval)	Power on but not added in a Z-Wave network
	Blink 5 times (0.5s Interval)	After pressing the code button 3 times to add/remove the siren to/from a Z-Wave network or to send node info
	Blink 5 times (0.3s Interval)	Power on and already added in a Z-Wave network
	Blink 1 time	After pressing the code button for a long time, when resetting to default settings
	Turn on with rotation	Alarm on

Add the siren alarm to a Z-Wave network

The siren alarm can be included to a Z-Wave network by using the code button.

1. Open the siren alarm and insert the batteries. Please do not operate the code button within the first 20 s after inserting the batteries. Make sure the device is located within the direct range of the Z-Wave controller.
2. Set the controller into the Add (inclusion) mode (refer to the controller user manual).
3. Press the code button of the siren alarm quickly 3 times and it will enter the Add (inclusion) mode. The LED flashes red 5 times on and off alternately.
4. The siren alarm will be detected and included into the Z-Wave network.
5. Wait for the controller to configure the siren alarm.

Remove the siren alarm from the Z-Wave Network

The siren alarm can be removed from the Z-Wave network by using the code button.

1. Open the siren alarm and make sure it is powered on. Make sure the device is located within the direct range of the Z-Wave controller.
2. Set the controller into the Remove (exclusion) mode (refer to the controller user manual).
3. Press the code button of the siren alarm quickly 3 times and it will enter the Remove (exclusion) mode. The LED flashes red 5 times on and off alternately.
4. Wait for the controller to remove (delete) the siren alarm.

Restore the siren alarm to factory default settings

The reset procedure will delete all information of the Z-Wave network and on the Z-Wave controller and restore the siren alarm to factory default settings.

1. Open the siren alarm and make sure it is powered on.
2. Make sure the device is located within the direct range of the controller.
3. Press and hold the code button for 10-15 s. The LED flashes red 5 times on and off alternately.
4. Release the button.

NOTE: During the process of resetting please make sure the siren alarm is powered all the time.

Associations

(Association Command Class Version 2)

The siren alarm supports 3 groups. Each group supports max 5 associated nodes. It can identify some Z-Wave notification sensors such as motion sensor, door/window sensor, water leakage sensor, smoke sensor and so on. If these sensors associate the siren alarm on their lifeline group or other group that supports NOTIFICATION_REPORT, the siren alarm can play different music when sensor is triggered.

GROUP 1 is a lifeline service assigned to the siren alarm status. It enables the siren alarm to send reports and readings to Z-Wave controller whenever the siren alarm is triggered. This group supports:

- NOTIFICATION_REPORT
- BATTERY_REPORT
- SWITCH_BINARY_REPORT
- DEVICE_RESET_LOCALLY_NOTIFICATION

GROUP 2 allows for sending the Switch Binary Report to associated devices in this group. This group supports:

- SWITCH_BINARY_REPORT

GROUP 3 allows for sending a notification to associated devices in this group. This group supports:

- NOTIFICATION_REPORT

NOTE: Association allows for direct communication between Z-Wave network devices. The controller does not take part in such communication.

Advanced Configuration

1. Configure Alarm Music Volume

This parameter defines the output volume when the siren is playing alarm music. The volume is divided into 3 steps, low (set to ‘1’), middle (set to ‘2’) and high (set to ‘3’). The default value is ‘3’.

Parameter Number	Size	Available settings	Default
1	1	1 ~ 3	3

2. Configure Alarm Music Duration Time

This parameter defines the alarm music duration time when the siren receives an alarm sensor notification or an alarm command from the controller. The duration time is divided into 5 steps, siren off (set to ‘0’), 30 seconds (set to ‘1’), 1 minute (set to ‘2’), 5 minutes (set to ‘3’) and siren always on until battery is dead (set to ‘255’). The default value is ‘2’.

Parameter Number	Size	Available settings	Default
2	1	0 ~ 3, 255	2

3. Configure Door Bell Music Duration Time

This parameter defines the door bell music duration time when the siren receives a notification report. The door bell music will be played always if it is set to '255'. The door bell music will not be played if it is set to '0'. Other values are the door bell music playing duration time.

Parameter Number	Size	Available settings	Default
3	1	0 ~ 255	1

4. Configure Door Bell Music Volume

This parameter defines the output volume when the siren is playing door bell music. The volume is divided into 3 steps, low (set to '1'), middle (set to '2') and high (set to '3'). The default value is '1'.

Parameter Number	Size	Available settings	Default
4	1	1 ~ 3	1

5. Configure Alarm Music

This parameter defines the alarm music for the siren to play if an alarm occurs. There are 10 different tunes the user can select.

Parameter Number	Size	Available settings	Default
5	1	0 ~ 10	10

6. Configure Door Bell Music

This parameter defines the door bell music for the siren to play if an alarm occurs. There are 10 different tunes the user can select.

Parameter Number	Size	Available settings	Default
6	1	0 ~ 10	9

7. Configure Default Siren On Mode

This parameter defines the default music, volume and duration time for the siren. ALARM MUSIC and DOOR BELL MUSIC can be selected. The ALARM MUSIC MODE is defined by parameters #1, #2 and #5, the DOOR BELL MUSIC MODE is defined by parameters #3, #4 and #6.

If set to '1', the siren will select the ALARM MUSIC MODE, if set to '2', the siren will select the DOOR BELL MUSIC MODE.

Parameter Number	Size	Available settings	Default
7	1	1 ~ 2	1

8. Configure Alarm LED Enable

This parameter defines the default LED enable status when the siren is in the ALARM MUSIC MODE. If set to '0', the LED is disabled, if set to '1', the LED is enabled and when the siren is on the LED will blink.

Parameter Number	Size	Available settings	Default
8	1	0, 1	1

9. Configure Door Bell LED Enable

This parameter defines the default LED enable status when the siren is in the DOOR BELL MUSIC MODE. If set to '0', the LED is disabled, if set to '1', the LED is enabled and when the siren is on the LED will blink.

Parameter Number	Size	Available settings	Default
9	1	0, 1	0

Command Class Interact

Binary Switch Command Class

The siren alarm can be turned on and off by the COMMAND_CLASS_SWITCH_BINARY. Which music is played by the siren is decided with the advanced configuration parameter #5. When the siren stops playing the alarm music, it will send a SWITCH_BINARY_REPORT = 0x00 to the controller.

Siren Alarm On:

Command Class: COMMAND_CLASS_SWITCH_BINARY
Command: SWITCH_BINARY_SEND
Value: 0xFF

Siren Alarm Off:

Command Class: COMMAND_CLASS_SWITCH_BINARY
Command: SWITCH_BINARY_SEND
Value: 0x00

Basic Command Class

The functions of BASIC_SET = 0x00 and BASIC_SET = 0xFF are same to Binary Switch Command Class.

Indicator Command Class

The INDICATOR_SET value indicates which music will be played. For example: With INDICATOR_SET = 0x01, the siren will play the first music.

See table as below:

Command	Music	Parameter volume / music
INDICATOR_SET = 0x01	1	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x02	2	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x03	3	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x04	4	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x05	5	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x06	6	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x07	7	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x08	8	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x09	9	Defined by #1, #4, #5, #6
INDICATOR_SET = 0x0A	10	Defined by #1, #4, #5, #6

Other INDICATOR_SET values are invalid for this siren.

Notification Command Class

If the siren receives a command from associated devices or the controller to play any music, the siren will send an active notification to the controller. If the siren stops playing the music, it will send a no active notification to the controller.

Notification Report Command:

Siren Active:

Command Class: COMMAND_CLASS_NOTIFICATION
Command: NOTIFICATION_REPORT
Notification Type: NOTIFICATION_TYPE_SIREN
Event: NOTIFICATION_EVENT_SIREN_ACTIVE

Siren No Active:

Command Class: COMMAND_CLASS_NOTIFICATION
Command: NOTIFICATION_REPORT
Notification Type: NOTIFICATION_TYPE_SIREN
Event: NOTIFICATION_EVENT_SIREN_NO_EVENT

Battery Check Command

Users can enquire the battery status of the siren alarm by sending the BATTERY_GET command. Once the siren alarm receives the command, it will return the BATTERY_REPORT command.

The siren alarm will send BATTERY_LEVEL = 0xFF command to the Z-Wave controller to inform that the siren alarm needs new batteries; otherwise the BATTERY_LEVEL value range is 0% to 100%.

Command Classes

The siren alarm supports the Command Classes as below:

- COMMAND_CLASS_ZWAVEPLUS_INFO (V2)
- COMMAND_CLASS_VERSION (V2)
- COMMAND_CLASS_MANUFACTURER_SPECIFIC (V2)
- COMMAND_CLASS_DEVICE_RESET_LOCALLY (V1)
- COMMAND_CLASS_POWERLEVEL (V1)
- COMMAND_CLASS_BATTERY (V1)
- COMMAND_CLASS_ASSOCIATION (V2)
- COMMAND_CLASS_ASSOCIATION_GRP_INFO (V1)
- COMMAND_CLASS_WAKE_UP (V2)
- COMMAND_CLASS_SWITCH_BINARY (V1)
- COMMAND_CLASS_NOTIFICATION (V6)
- COMMAND_CLASS_CONFIGURATION (V1)
- COMMAND_CLASS_INDICATOR (V1)

Guarantee

1. The Guarantee is provided by our company (hereinafter "Manufacturer")
2. The Manufacturer is responsible for equipment malfunction resulting from physical defects (manufacturing or material) for 12 months from the date of its purchasing.
3. During the Guarantee period, the Manufacturer shall repair or replace any defects, free of charge.
4. In special cases, when the device cannot be replaced with the device of the same type (e.g. the device is no longer available in the commercial offer), the Manufacturer may replace it with a different device which has similar technical parameters as the faulty one. Such activity shall be considered as fulfilling the obligations of the Manufacturer. The Manufacturer shall not refund money paid for the device.
5. The guarantee shall not cover:
   - mechanical damages (cracks, fractures, cuts, abrasions, physical deformations caused by impact, falling or dropping the device or other objects, improper use or not observing the operating manual)
   - damages resulting from external causes as e.g. flood, storm, fire, lightning, natural disasters, earthquakes, war, civil disturbance, force majeure, unforeseen accidents, theft, water damage, liquid leakage, battery spill, weather conditions, sunlight, sand, moisture, high or low temperature, air pollution
   - damages caused by malfunctioning software, attack of a computer virus or by failure to update the software as recommended by the Manufacturer.

Disposing and recycling your product

When the device reaches its end of life, dispose it according to your local environmental laws, guidelines and regulations. The WEEE symbol on the product or the packaging means that according to local laws and regulations it needs to be disposed of separately from household waste.

Once this product has reached the end of its life, please take it to a collection point (recycle facility) designated by your local authorities. By recycling the product and its packaging you help to conserve the environment and protect human health.

Manufacturer

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All above is for references only, please see the subject on products.

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