Siren Alarm

User Manual

Thank you for your support!

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

Product Introduction

Siren alarm is an intelligent device that can be controlled remotely by the radio frequency. Siren alarm send messages via Z-Wave network to the Z-Wave main controller. In the Z-Wave network communications, Siren alarm can be connected to any Z-Wave main controller, Different countries or areas, the radio frequencyof the Z-Wave network is different. In the communication between the Siren alarm and Z-Wave main controller, the siren alarm can both send and receive messages. When press the code button of siren alarm, it will send message to the Z-Wave main controller, the Z-Wave main controller can display the on/off status of the siren alarm; when the siren alarm receives messages from theZ-Wave main controller, the siren alarmwill be triggered. The siren alarm is battery powered, small and easily install. When sirenalarm is working, LED light will flash, and there will be alarm sound at the same time. The sound is not lower than 90 decibels.

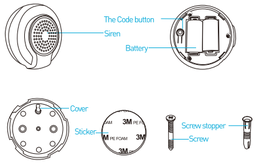
Technical Parameters

- Power supply:CR123A x 2
- Stand-by time: 1 year
- Radio Frequency: 868.4MHz EU; 908.4MHz US
- Compatible with 300 series and 500 series
- Easy installation on wall or any surface
- 10 sound can be select
- Range: up to 80m outdoor; up to 40m indoor
- Power Consumption: 2W
- Max Current: 35mA (In Radio Transmitter Mode)
  500mA (In Siren On and Max Volume Mode)
- Radio Protocol: Z-Wave
- Sound intensity: >90 dB
- Operation temperature: 0~40°C
- Storage temperature: 0~60°C
- Dimension: (D x W x H): 70mm x 68mm x 31mm

Technical Information

- When the siren alarm triggered, it will make alarm sound and LED light flashat the same time.
- When the other sensor is triggered, the siren alarm can associate with the sensorsthrough the Z-Wave network.
- Siren alarm can be controlled remotely via mobile phoneApp.
- Compatible with any Z-Wave controller.

Product Configuration



Items List

• Siren alarm	1pc
• Battery	2pcs
• Screw	3pcs
• Screw stopper	3pcs
• Double-side adhesive	1pc
• User manual	1pc

Installation Steps

Hardware Installation

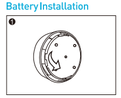
- Cover installation
- Battery installation

Cover installation

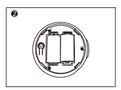
Option One
Fix the siren alarm with Screws

Option Two
Fix the siren alarm with sticker

Battery Installation



Open the siren alarm



Install the battery

Close the siren alarm

Installation example

Tips

1.When install the siren alarm, please avoid the noisy places.
2 . Please install somewhere easy to find.
3 . Do not install in a ventilated position to affect the effect of the siren alarm.
4 . Do not install at a wet place to prevent the siren alarm from damaging.
5 . When the siren alarms, it would sound and the led would flash red lights.
6 . Association allows for direct communication between Z-Wave network devices. Main controller does not take part in such communication. Using this mechanism, siren alarm may communicate with other devices even when the main controller is damaged.

Battery Usage Tips

Battery life of the siren alarm is approximately 1years at factory default settings. The current battery level is displayed in the Z-Wave main controller. Red battery icon means the battery needs replaced.

Note: Siren alarm is battery powered. Using batteries other than specified may result in explosion. Dispose of properly, please observe environmental protection rules.

LED Color Indicator

LED Color	Led Display Status	Description
Red	Blink 5 Times (1s Interval)	Power on and Not Add in Z-Wave Network
	Blink 5 Times (500ms Interval)	Press Button tripled, Adding siren in a Z-WaveNetwork or SendNode Info.
	Blink 5 Times (300ms Interval)	Power on and Already Add in a Z-Wave Network
	Blink 1 Time	Press the Button Long Time, Reset the Plug torestore default settings
	Turn on with rotation	Alarm on

Including Siren Alarm to Z-Wave Network

The siren alarm can be included to the Z-Wave network by pressing on the code button.
1) Disassemble the siren alarm and insert the battery into the siren alarm. Make sure the device is located within the direct range of the controller.
2) Set the controller into the learning mode (see main controller's operating manual).
3) Quickly, triple click the code button, LED light will flash red for 5 times.
4) Siren alarm will be detected and included in the Z-Wave network.
5) Wait for the main controller to configure the siren alarm.

Tips: Power to the code, the device is plugged into the power 20S can not have any operation!

Excluding Siren alarm from Z-Wave Network

1) Make sure the sensor is connected to power source.
2) Set the main controller into the learning mode (see main controller"soperating manual).
3) Quickly, triple click the code button, LED light will flash red for 5 times.
4) Wait for the main controller to delete the sensor.

Restore the Sensor to Factory Default Settings

Reset procedure will delete all information on the Z-Wave network and Z-Wave controller or Z-Wave Gateway, and restore the sensor to factory default settings.
1, Remove the device cover.
2, Make sure the sensor is powered.
3, Press and hold the button for 10 seconds, led will blink once.
4, Release the button.

Note: restore factory settings in the process, do not power off.

Associations

(Association Command Class Version 2)

This Siren supports 3 groups; each group supports max 5 associated nodes.
This siren 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 this siren to their lifeline group or other group that supports NOTIFICATION_REPORT, the siren will play different music when sensor is triggered.

GROUP 1 is lifeline service that assigned to Siren status. It enables the Siren to send reports andreadings to Z-Wave Controller or Z-Wave Gateway whenever the sensor is triggered. This Group Support:SWITCH_BINARY_REPORT, NOTIFICATION_REPORT,BATTERY_REPORT, DEVICE_RESET_LOCALLY_NOTIFICATION

GROUP 2 allows for Send Binary Switch Report to associated devices in this group. This Group Support:SWITCH_BINARY_ REPORT

GROUP 3 allows for Send Notification to associated devices in this group. This Group Support:NOTIFICATION_REPORT

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

Advanced Configuration

1. Configure Alarm Music Volume

This parameter defines the output volume when siren plays door bell music, Door Bell music volume is divided into 3 stages, Low (Parameter is set to '1'), Middle (Parameter is set to '2'), High (Parameter is set to '3'), 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 siren receive an alarm sensor notification report or an alarm command from controller. The duration time is divided into 5 stages: Siren is not on (Parameter is set to '0'), 30 second (Parameter is set to '1'), 1 minute (Parameter is set to '2'), 5 minute (Parameter is set to '3') and Siren is always on until battery is dead (Parameter is set to '255'). Default value is '2'.

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

3. Configuring Door Bell Music Duration Time

This parameter defines the door bell music duration time when siren receives a door/window sensor notification report. The door bell music will be played always if this parameter is set to '255'. The door bell music will not be played if this parameter is set to '0'. Other values are the door bell music playing duration time, Unit: 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 siren plays alarm music. Door Bell music volume is divided into 3 stages, Low (Parameter is set to '1'), Middle (Parameter is set to '2'), High (Parameter is set to '3'). Default value is '1'.

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

5. Configure Alarm Music Index

This parameter defines the alarm music index for siren play different music when alarm occurs. There are 10 different music for user selection.

Parameter Number	Size	Available Settings	Default
5	1	1 ~ 10	10

6. Configure Door Bell Music Index

This parameter defines the door bell music index for siren play different music when alarm occurs. There are 10 different music for user selection.

Parameter Number	Size	Available Settings	Default
6	1	1 ~ 10	9

7. Configure Default Siren On Mode

This parameter defines the default music index, volume and the duration time for siren on. This parameter can be selected between ALARM MUSIC and DOOR BELL MUSIC. The settings for ALARM MUSIC MODE defines by Param #1, #2 and #5. Thesettings for DOOR BELL MUSIC MODE defines by Param #3, #4 and #6.
If parameter set to '1', siren will select ALARM MUSIC MODE to play music;
If parameter set to '2', siren will select DOOR BELL MUSIC MODE to play music;

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 siren is on for ALARM MUSIC MODE.
If parameter is set to '0', led will be disable.
If parameter is set '1', led will be enable. When 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 siren is on for DOOR BELL MUSIC MODE.
If parameter is set to '0', led will be disable.
If parameter is set t0 '1', led will be enable. When 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

Siren can be turned on and off by COMMAND_CLASS_SWITCH_BINARY Which music will be play by siren is decided by advance configuration parameter #5. When Siren stop play alarm music, it will send a SWITCH_BINARY_REPORT = 0x00 to 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 is indicated that which music will be played. For example INDICATOR_SET = 0x01, Siren will play the first music. See the Table As Blow:

Command	Music Index in Memery	Playing Volume And Time
INDICATOR_SET = 0x01	1	Defined By Param #3, #4
INDICATOR_SET = 0x02	2	Defined By Param #3, #4
INDICATOR_SET = 0x03	3	Defined By Param #3, #4
INDICATOR_SET = 0x04	4	Defined By Param #3, #4
INDICATOR_SET = 0x05	5	Defined By Param #3, #4
INDICATOR_SET = 0x06	6	Defined By Param #3, #4
INDICATOR_SET = 0x07	7	Defined By Param #3, #4
INDICATOR_SET = 0x08	8	Defined By Param #3, #4
INDICATOR_SET = 0x09	9	Defined By Param #3, #4
INDICATOR_SET = 0x0A	10	Defined By Param #3, #4

Other INDICATOR_SET values are invalid for this siren.

Notification Command Class

If Siren receives a command from associated devices or controller to play any music, siren will send an active notification to controller. If Siren stops play music, it will send a no active notification to controller.
Siren Active Notification Report:
Command Class: COMMAND_CLASS_NOTIFICATION
Command: NOTIFICATION_REPORT
Notification Type: NOTIFICATION_TYPE_SIREN
Event: NOTIFICATION_EVENT_SIREN_ACTIVE
Siren No Active Notification Report:
Command Class: COMMAND_CLASS_NOTIFICATION
Command: NOTIFICATION_REPORT
Notification Type: NOTIFICATION_TYPE_SIREN
Event: NOTIFICATION_EVENT_SIREN_NO_EVENT

Battery Check Command

The users can also enquire the battery status of the siren by sending BATTERY_GET command. Once the siren receivers the command, it will return BATTERY_REPORT command. The siren will send BATTERY_LEVEL = 0xFF command to the ZⅡWave Controller to inform that the siren is in dead battery status, otherwise BATTERY_LEVEL value range is 0% to 100%.

Command Classes

This Sensor supports 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 Shenzhen NEO Electronics Co., Ltd (hereinafter "Manufacture")
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 object, improper use or not observing the operating manual);damages resulting from external causes, 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;

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