

Siren Alarm User Manual

Siren alarm is an intelligent device that can be controlled remotely by radio frequency. In the Z-wave network communications, Siren alarm can be connected to any Z-wave gateway or controller. Different countries or areas, the radio frequency is different. In the communication between Siren alarm and Z-wave gateway, siren alarm can only receive messages. When siren alarm receives messages from Z-wave gateway, siren alarm would be triggered. Siren alarm is battery powered, small and easily to be installed. When siren alarm is working, LED lights would flash, and there will be alarm sound at the same time. The sound is not lower than 85 decibels.

SPECIFICATIONS

Power supply	CR123A x 2
Stand-by time	1 year
Radio Frequency	865.2MHz IN
Compatible with 300 series and 500 series	
Easy installation on wall or any surface	
10 kinds of tones for option	
Range	up to 80m outdoor up to 40m indoor (Depending on terrain and building structure)
Power Consumption	2W
Max Current	35mA (In Radio Transmitter Mode) 500mA (In Siren On and Max Volume Mode)
Radio Protocol	Z-wave
Sound intensity	>85 dB
Operation temperature	0~40°C
Storage temperature	0~60°C
Dimension	70mm x 68mm x 31mm

Technical Information

- When siren alarm is triggered, it will make alarm sound, and LED lights would flash at the same time.
- When any sensor is triggered, siren alarm can be associated to work through Z-wave network.
- Siren alarm can be controlled remotely via mobile phone App.
- Compatible with any Z-wave gateway or controller.

Product Configuration



Item List

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

Installation Steps

Hardware Installation

1. Cover Installation
2. Battery Installation

1. Cover Installation

- I. Option One : Fix the siren alarm with Screws
- II. Option Two: Fix the siren alarm with sticker

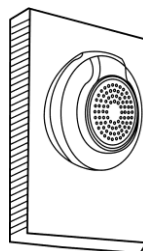


2. Battery Installation



Disassemble the siren alarm Install battery Close the siren alarm

Installation Example



Tips

- Please install siren in a quiet place to avoid the noise.
- Please install at somewhere that is easy to be found.
- Do not install in a ventilated position which can easily influence the effect of the siren alarm.
- Do not install at a wet place to prevent siren alarm from being damaged.
- When siren is triggered, it would sound, and led lights would flash red color.

Battery Usage Tips

Battery life of siren is approximately 1 year. The power level of battery would be displayed in the gateway. Red icon means the battery needs replacing, and then mobile app would receive a message "power level is low, please remember to replace battery" from gateway.

Note

Siren alarm is powered by battery, and please use battery in a correct way to avoid exploding. When disposing of the battery, refer to environmental law please remember to replace battery" from gateway.

LED Color Indicator

LED Color	Led Display Status	Description
Red	Blink 5 Times(1s Interval)	Siren is powered on, and has not been added to z wave network yet
	Blink 5 Times(500ms Interval)	Enter inclusion mode Send Node Info.
	Blink 5 Times(300ms Interval)	Siren has already been added to z wave network, and make it powered on again
	Blink 5 Times	Press and hold the reset button for 10-15 seconds to restore siren to factory settings
	LED lights flash with rotation	Alarm

Add Siren alarm to Z-wave Network

Siren alarm can be included to Z-wave network by pressing on the code button.

- 1) Disassemble siren alarm, and insert battery into battery jar.
- 2) Make sure siren is located within the z wave network range of gateway.
- 3) Set Z-Wave gateway into inclusion mode (Refer to gateway user manual).
- 4) Press the code button in siren three times continuously, then siren will enter inclusion mode. Meanwhile, LED light would flash red color five times on and off alternately.
- 5) Siren alarm will be detected and included in the Z-wave network.
- 6) Wait for gateway to configure siren.

Remove Siren alarm

- 1) Remove the cover of siren, and make sure siren is powered
- 2) Set Z-Wave gateway into exclusion mode (Refer to gateway user manual)
- 3) Press the code button in siren three times continuously, then siren will enter exclusion mode. Meanwhile, LED lights would flash red color five times on and off alternately.
- 4) Wait for gateway to delete siren

Restore Siren alarm to Factory Settings

Reset procedure will delete all information in the Z-Wave network or Z-Wave Gateway, and restore siren to factory default settings.

1. Remove the cover of siren.
2. Make sure siren is powered
3. Press and hold the reset button for 10-15 seconds, then LED lightswould flash red color 5 times on and off alternately.
4. Release the button.

Note :

During the process of resetting, please make sure siren is powered on all the time.

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 siren to their lifeline group or other group that supports NOTIFICATION_REPORT, siren will play different music when sensor is triggered.

GROUP 1 is lifeline service that assigned to Siren status. It enables Siren to send reports and readings to Z-Wave Gateway whenever siren is triggered. This Group Support: SWITCH_BINARY_REPORT,

NOTIFICATION_REPORT,
BATTERY_REPORT,
DEVICE_RESET_LOCALLY_NOTIFICATION

GROUP 2 allows Sending Binary Switch Report to associated devices in this group. This Group Support: SWITCH_BINARY_REPORT

GROUP 3 allows Sending Notification to associated devices in this group. This Group Support:

NOTIFICATION_REPORT

Direct association is allowed between siren and other Z-wave network devices if preset association functionality. Z wave gateway does not take part in such communication. Using this mechanism, siren can communicate with other devices even when gateway is damaged.

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 gateway. 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 all the time 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 musics 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 are defined by Param #1, #2 and #5. The settings for DOOR BELL MUSIC MODE are defined by Param #3, #4 and #6.

If parameter is set to '1', siren will select ALARM MUSIC MODE to play music;

If parameter is 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.

After making it powered on, please do not operate it within 20s.

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

If parameter is set '1', led will be enabled. When siren is on, led lights will blink.

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 disabled.

If parameter is set to '1', led will be enabled. When siren is on, led lights will blink.

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

Binary Switch Command Class

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

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 Memory	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 gateway to play any music, siren will send an active notification to gateway. If Siren stops playing music, it will send a no active notification to gateway.

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

Users can also enquire the battery status of siren by sending BATTERY_GET command. Once siren receives the command, it will return BATTERY_REPORT command. Siren would send BATTERY_LEVEL = 0xFF command to Z-Wave gateway to inform that siren is in dead battery status, otherwise BATTERY_LEVEL value range is 0% to 100%.

Command Classes

This Siren 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

- The Guarantee is provided by Confio Technologies (hereinafter "Manufacturer")
- The Manufacturer is responsible for equipment malfunction resulting from physical defects (manufacturing or material) for 12 months from the date of its purchasing.
- During the Guarantee period, the Manufacturer shall repair or replace any defects, free of charge.
- 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.
- 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



CONFIO[®]

For any technical and support queries, please contact the Manufacturer

CONFIO TECHNOLOGIES PRIVATE LIMITED
 #3500/A, 80 Feet Road,
 Raghuvanahalli, Bangalore - 560062
 Karnataka, India

Email: support@confiolabs.com
 www.confiolabs.com

Serial Number:	
Dealer Code:	
Installation Date:	
Stamp:	

