



Description

SR-BX-ZW is a Z-Wave External Siren that can connect to compatible Z-Wave enabled networks. It is capable of sounding an alarm upon receiving an alarm signal from the controller in the Z-Wave network when an alarm is activated. When triggered, the Siren will sound and the LED strobe will flash to attract attention.

Power Supply

The Siren is powered by 4x D-cell Alkaline batteries. On the right hand side of the PC board it has a power switch to turn the batteries ON or OFF. The Siren can also be powered using an optional 9V 1A power adaptor (via 9V power input). When wired, the Siren will primarily draw power from the 9V

power adaptor and the batteries will act as a backup power source in the event of a power cut. The battery ON/OFF switch does not effect the 9V power adaptor.

Under battery only operation (without 9V power supply), the Siren will report the battery level (100%, 75%, 50%, 25%, 10%, 0%) and low battery condition (when power drops below 10%). This indicates that the Siren has less than 1 month of standby power before the batteries are exhausted. The Siren will also beep five times when arming/disarming to indicate low battery condition.

Note: When changing batteries, press the learn button a few times to fully discharge before inserting new batteries.

For more information on this product and Yale Smart Living Range visit www.yale.co.uk/smart-living
Consumer Support: info@yale.co.uk



The 2 year guarantee for this product is active from the date of purchase (A copy of this guarantee is available on our website).

Adding and removing the Siren from Z-Wave network

ADDING THE SIREN

This product can be added and operate in any compatible Z-Wave network. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Adding steps:

- Turn on the battery power switch to activate the pre-inserted batteries.
- The Siren will emit a 2-tone beep.
- Put the Z-Wave controller into **adding** or **Learning** mode (please refer to the Z-Wave controller manual).
- Within 1.5 seconds, press the Siren learn button 3 times.
- Refer to the operation manual of the Z-Wave controller to complete the learn-in process.
- If the Siren has already been **added** (learnt) into another Z-Wave controller, or if the Siren is unable to be learnt into the current Z-Wave controller, please remove it first (see **Removing the siren** below) before attempting to **add** it into the current Z-Wave controller.

REMOVING THE SIREN

The Siren must be removed from any existing Z-Wave network before being added into a new Z-wave network. There are two methods available to remove a device.

Removing Mode

- Put the existing Z-Wave controller into **Removing Mode** (please refer to the Z-Wave controller manual).
- Within 1.5 seconds, press the learn button 3 times and the Siren will be removed from the existing Z-Wave network.
- The Siren is now ready to be added to a new Z-Wave controller.

Factory Reset (Only use this when the existing Z-Wave controller is missing or inoperable).

- Turn off battery power switch and disconnect 9V power adaptor (if present).
- Press and hold the learn button.
- While holding the learn button, power on the Siren (power switch ON and reconnect the 9V power adaptor). Keep holding for 10 seconds to complete the factory reset.
- Please note that the existing Z-Wave controller will still retain the Siren's Z-Wave setting. Please refer to the Z-Wave controller manual on delete procedures.
- The Siren is now ready to be added to a new Z-Wave controller.

Installing The Siren

There are two tamper springs on the Siren (one pushing against the wall and one pushing against the front cover). If the Siren is pulled off from the wall and/or separated from the front cover, the alarm will be activated. Please ensure that both springs are fully depressed when the Siren is mounted.

Please follow the installation steps below:

- Disable Siren tamper via your Z-Wave controller. Please refer to your Z-Wave controller manual.
- Find a location where Siren is to be mounted.
- Using the large screws and wall plugs provided, mount on the wall through the 4 x mounting holes.
- Fix the Siren cover with the securing screw. Ensure the Siren Power Switch is set to ON position.
- Enable Siren tamper in your Z-Wave controller

Siren Function Overview

SIREN SOUND

The Siren produces a minimum of 104 dBA sound pressure within 1 metre. The Siren duration can be configured by the Z-Wave controller. (Functionality may vary depending on the controller).

- For Burglar / Emergency / Tamper Alarm, the Siren will produce a continuous alarm sound with sequential flashes until reaching the pre-set alarm duration.
- For Fire alarm, the Siren will produce a continuous alarm sound (2-second on and 1-second off) with sequential flashes until reaching the pre-set alarm duration.
- For Water alarm, the Siren will produce a continuous alarm sound (2-second on and 1-second off) with sequential flashes until reaching the pre-set alarm duration.
- When batteries are low, the beeping will be broken into uneven cycles.
- The Siren is silenced when either the programmed Siren duration expires or the Z-Wave controller turns off the Siren.

Power Adaptor Failure

If the 9V power adaptor is used and subsequently disconnected, the Siren will transmit an "AC Power Failure" signal to the Z-Wave controller.

Tamper Alarm

The Siren is protected by two tamper springs, i.e. one pushing against the wall and one pushing against the front cover.

Whenever the Siren is removed from its mounted location, or its cover is opened, the tamper switch will be activated and the Siren will send a tamper open signal to the Z-Wave controller.

The Siren tamper can be disabled when mounting the alarm or changing batteries. Please refer to your Z-Wave controller manual for configuration details.

Confirm Beeps

The Siren can be programmed to produce additional confirmation beeps to tell you when the Z-Wave controller is armed or disarmed from outside the premises - One long beep for Armed or Home Armed, two beeps for Disarmed.

The LED strobe light confirmation is always enabled and will not be effected by this option. Please refer to the **Audio & Visual Status Indication** section for details. (Functionality may vary depending on the controller).

Entry Sound On, Entry Sound Off

The Siren can be enabled or disabled from sounding the Entry Delay warning beeps. Please refer to **Audio & Visual Status Indication** section for details. (Functionality may vary depending on the controller).

Alarm Activation

When an alarm is activated, the Siren will sound and flash according to the different alarm type:

- Burglar and Emergency alarm: Continuous alarm, all LED's flash.
- Fire alarm: 2-second alarm with 1-second interval, all LED's flash.

Alarm Length Setting

When the Siren receives an alarm signal via the Z-Wave network, it will activate the Siren and strobe light for the length of time set by the Z-Wave controller (default is 10 minutes).

Audio and Visual Status Indication

The Siren can be set to indicate system status such as Arm, Home, Disarm and Fault. Please see the table below for indication patterns. (Functionality may vary depending on the controller).

	Siren Audio	Strobe Light Indication
Arm/Home	1 Long Beep	3 LED's Flash at Once
Disarm	2 Beeps	Sequentially flashes for one cycle
Disarm + Alarm Memory	5 Beeps	None
Fault in System 1-sec	Short Beep	None
Alarm	Siren	LED's Flash
Burglar	Siren	LED's Flash
Fire	Siren	LED's Flash
Water	Continuous Beeps	LED's Flash
Entry Count Down	Short Beep	None
Exit Count Down	Short Beep	None
Door Chime	Ding-Dong	None
Stop Beep	None	None

Z-Wave Configuration

[COMMAND_CLASS_CONFIGURATION]
[CONFIGURATION_SET]

Parameter Number : 0x01~0x04

Size : 0x01

Reserved : 0x00

Default : 0x00

Configuration Value : 0xXX

Parameter Number	Configuration Value
0x01, Alarm Length	0x01 ~0x0A (1 ~ 10 min), default 0x0A
0x02, Alarm LED Flash ON/OFF	0x00:disable, 0x01:enable;default 0x01
0x03, Comfort LED	0x00~0x19 (disable,10sec,...,250sec) default: 0x00 each unit is 10 sec
0x04, Tamper Enable/Disable	0x00:disable, 0x01:enable;default 0x01

Z-Wave Information

SR-BX-ZW is a "Security Enabled Z-Wave Plus Product." The Controller also supports as "Security Enabled Z-Wave Controller."

Device Type: Generic Siren

Role Type: Listen Sleeping Slave (LSS)

Command Class Support/Control

Mandatory CC Support:

- Battery CC
- Device Reset Locally CC
- Manufacturer Specific CC
- Power Level CC
- Version CC, v2 or newer
- Z-Wave Plus Info CC
- Configuration CC
- Scene Activation CC (Security)
- Notification V4 CC (Security)
- Association CC, v2 or newer (Security)
- Association Group Information CC (Security)
- Firmware Update Md CC (Security)



Information and illustrations are subject to change. Yale reserves the right to alter the specification and product design at any time without notice.

Z-Wave's Groups (Association Command Class Version 2)

Z-WAVE'S GROUPS (ASSOCIATION COMMAND CLASS VERSION 2)

SR-BX-ZW can be set to send reports to associated Z-Wave devices. It supports three association groups
Group 1 for "LifeLine" (maximum node:1)

Battery CC (COMMAND_CLASS_BATTERY)

Notification CC,V4 (COMMAND_CLASS_NOTIFICATION)

SwitchBinary CC, V1 (COMMAND_CLASS_SWITCH_BINARY)

Device Reset Locally CC

Group 2 for "Tamp rep": (maximum node:5)

Notification CC,V4 (COMMAND_CLASS_NOTIFICATION)

When Tamper Open, Group 2 send Notification (Type:07,Event 03), Tamper Close send Notification (Type:07,Event:00,Parameter: 03)

Group 3 for "AC rep": (maximum node:5)

Notification CC,V4 (COMMAND_CLASS_NOTIFICATION)

When AC Fail send Notification (Type:08, Event:02),
When AC Restore send Notification (Type:08, Event:03)

Z-Wave and Zigbee Home Automation (HA) allow different devices from different manufacturers to be part of the same network. This allows the compatible devices all around your house to communicate together.

The range of the networks vary (roughly 100 metres for Z-Wave and 70 metres for Zigbee HA in open space) however this will be affected by building materials.If you find that the Siren is outside the range of the network you may need to install a repeater device to extend the range. Most constantly powered Z-Wave and Zigbee HA devices will act as a repeater, regardless of the product vendor.

Due to the Siren being a security enabled Z-Wave Plus product, any home automation controller system must also be security enabled Z-wave controller in order to communicate.

Issue No. 1C



WEEE

Note: Waste electrical products and batteries should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.