

**HS3B/SSXX
Battery/Solar Siren**



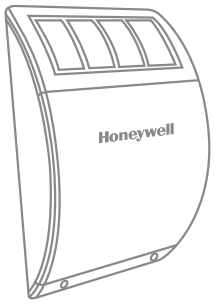
Installation & Operating Manual

CONTENTS

KIT CONTENTS	3	OPTIONAL MICRO USB CHARGER PORT ON SOLAR MODELS ONLY	9
TOOLS REQUIRED	3		
INTRODUCTION AND OVERVIEW	4	OPERATING INSTRUCTIONS	9
Solar Models	4	Arming the System	10
Battery Powered Models	4	Instant-Arm Mode	10
		Delay-Arm Mode	10
		Disarming the System	10
		Panic Alarm	10
		Device Tamper	11
		Low-battery condition	11
EXTERNAL SIREN	5	MAINTENANCE	11
General Information	5	Solar Powered models	11
Positioning the Siren	5	Battery Powered models	11
Installing and Configuring the Siren	5		
Powering up the Siren	6		
Linking a new remote control fob to the Siren	7		
Mounting the Siren on to the wall	7		
LINKING A NEW DEVICE TO THE SIREN	8		
DELETING ALL DEVICES FROM THE SYSTEM	8		
SERVICE MODE/OPERATING MODE	8		

KIT CONTENTS

HS3SSXX – SOLAR MODELS

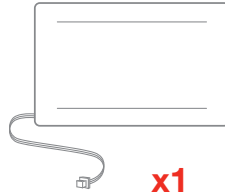


x1



x1

Rechargeable
Main Battery
(6V, NiMH)

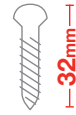


x1

Initial power-up
battery (9V, alkaline)
(6LR61 (PP3))



x1

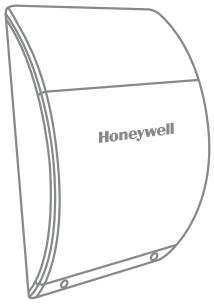


x3



x3

HS3BSXX – BATTERY POWERED MODELS



x1



x1

Alkaline D
(LR20) batteries



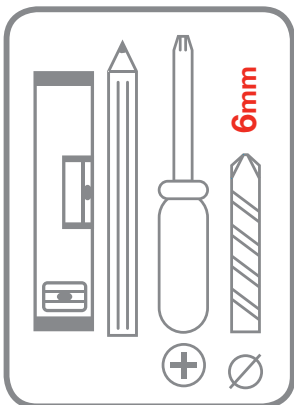
x4



x3



x3



IMPORTANT: LOCAL AUTHORITY REGULATIONS AND LEGISLATION

This alarm system should be installed and operated in accordance with the requirements of any current local and/or national regulations and legislation. We recommend that you contact your authority to obtain details of your area's requirements regarding intruder alarm installations.

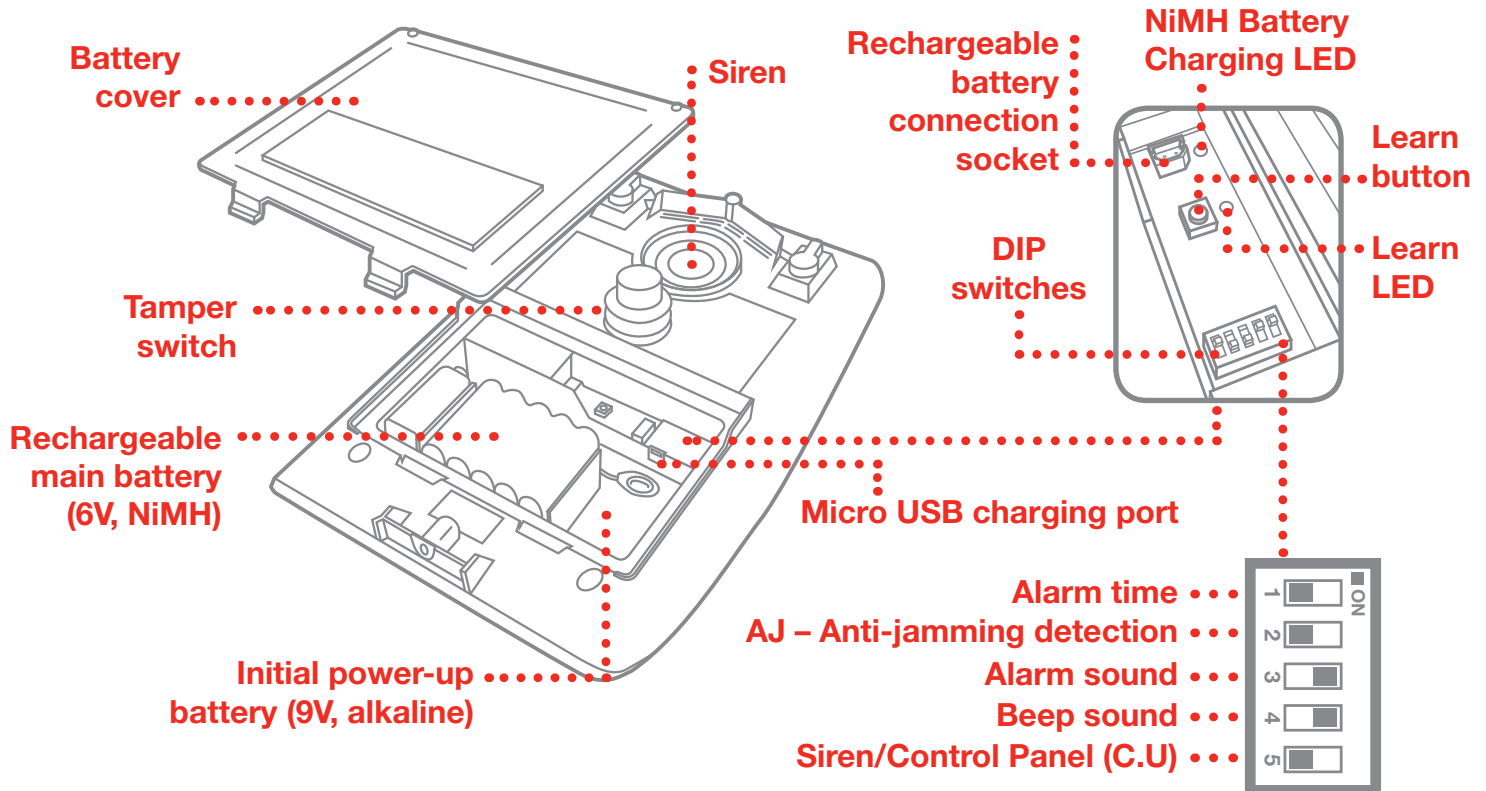
INTRODUCTION AND OVERVIEW

The Siren is suitable for use with Honeywell wireless alarm systems operating at 868 MHz only.

There are 2 versions of the functional Siren available depending on the model purchased, a solar model or a battery powered model.

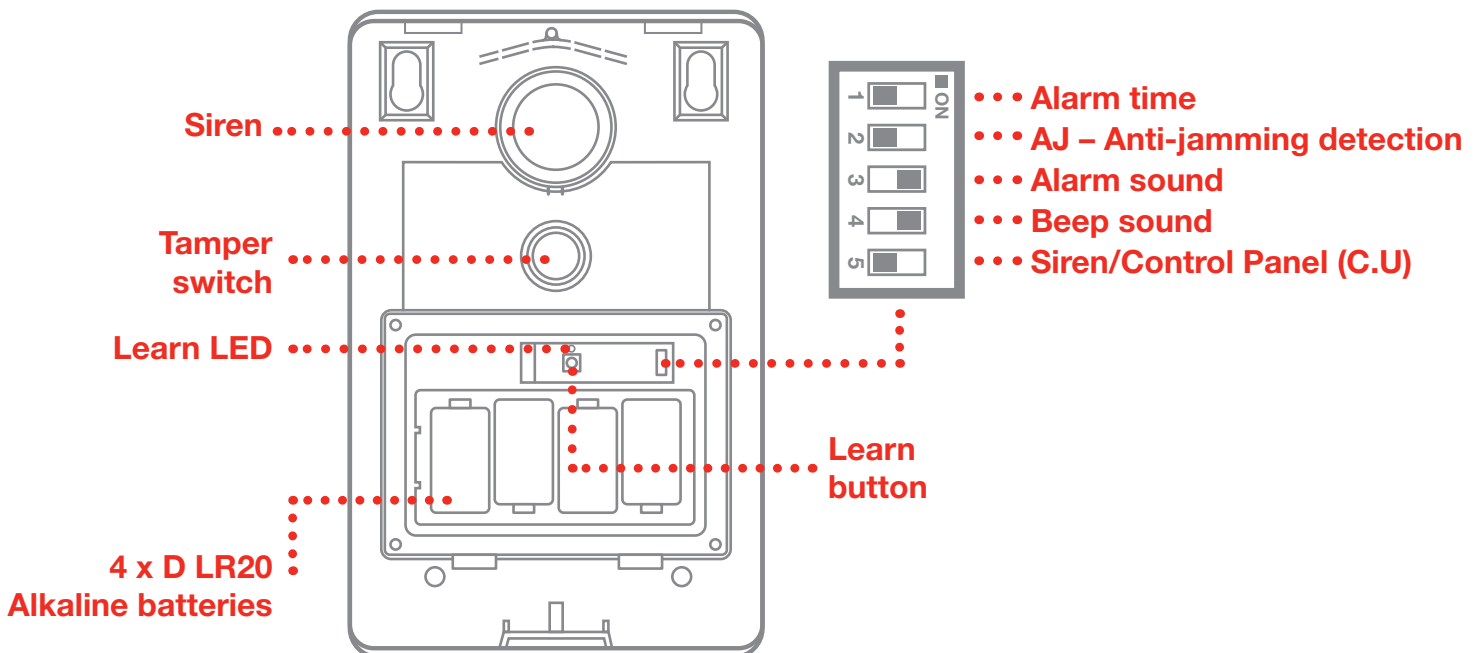
SOLAR MODELS

The solar model uses a high-capacity, rechargeable main battery (NiMH). The solar panel on top of the housing charges the battery during daylight hours. Only a small amount of energy from the rechargeable battery is required to operate the Siren. The Siren is supplied with an initial power-up battery (alkaline) to boost the initial power to the Siren when the system is first activated until the solar panel charges the rechargeable main battery.



BATTERY POWERED MODELS

The battery powered model uses 4 x Alkaline D (LR20) batteries.



The Tamper switch will trigger an Alarm if any attempt is made to remove or interfere with the Siren after installation. An anti-jamming detection system will generate an Alarm if any attempt is made to continuously jam the radio channel used for the system.

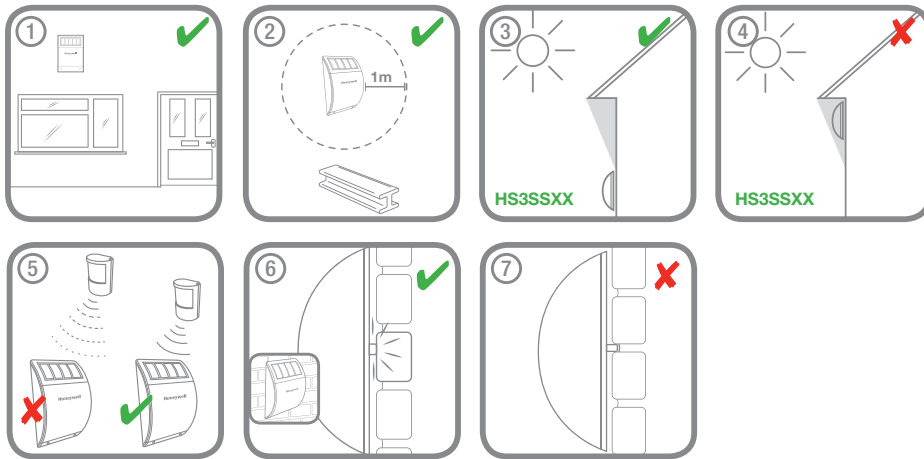
EXTERNAL SIREN

The Siren is made from a tough polycarbonate housing and is weatherproof.

An LED indicator unit is built into the Siren to act as a visible deterrent and indication that the system is active. The LEDs will slowly and alternately flash whether the system is Armed or Disarmed.

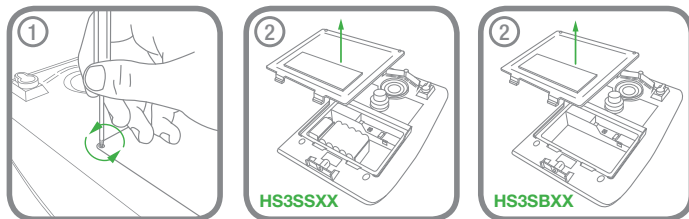
When an alarm occurs the LEDs will flash rapidly together.

POSITIONING THE SIREN



INSTALLING AND CONFIGURING THE SIREN

Do not connect the batteries for Solar models or remove the battery isolation tab for battery models until setup is complete.



2. Under the cover you will find a row of 5 DIP Switches and a 'LEARN' button.



Control Panel (C.U)/Siren
Set to 'OFF'

3. Ensure that DIP Switch 5 of SW3 on the main board is set to the required position:

- ON ("Control Panel C.U") for use when setting the Siren up as an alarm system (single zone).
- OFF ("Siren") for use when setting the Siren up with a separate control panel/keypad.

4. DIP Switch 1 marked “**ALARM TIME**” is used to limit the maximum period for which the external Siren will sound before it will be automatically shut down:
 Without control panel/Keypad (single zone): **ON** 3 minutes / **OFF** 1 minutes
 With separate control panel/Keypad: **ON** 10 minutes / **OFF** 3 minutes

5. DIP Switch 2 marked “**AJ**” controls the anti-jamming detection facility in the Siren when using the Siren without a separate control panel/Keypad alarm system:
ON Jamming Detection enabled
OFF Jamming Detection disabled

6. DIP Switch 3 marked “**ALARM SOUND**” allows you to enable or disable the Siren during an alarm:
ON Siren enabled
OFF Siren disabled

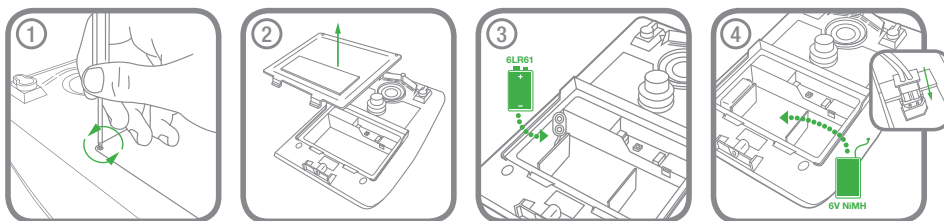
7. The Siren will acknowledge signals from the Remote Control Fob by beeping and flashing the LEDs. It is possible to enable and disable these acknowledgement beeps with DIP Switch 4 marked ‘**BEEP SOUND**’. This is only operational when Siren is set in C.U mode
ON Beeps enabled
OFF Beeps disabled

POWERING UP THE SIREN

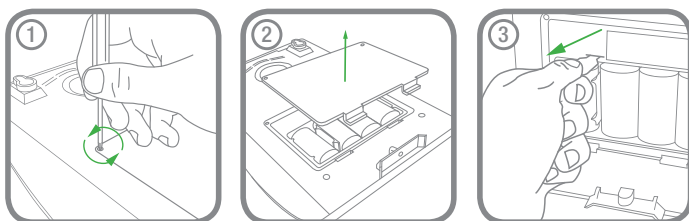
Note: The use of ear defenders is advisable when working in close proximity to the Siren due to the high sound level produced by this device when triggered.

If you install the Siren for the first time, it will automatically power up in Service Mode. You cannot switch the Siren out of Service Mode and into Operating Mode until at least one Remote Control Fob is linked to it.

1. HS3SSXX

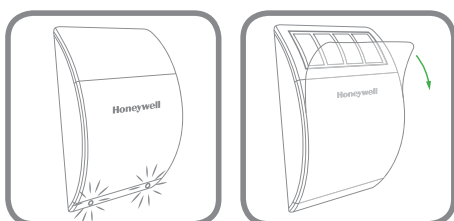


2. HS3SBXX



3. Once the batteries are connected on the solar powered model/the battery isolation tab has been removed on the battery powered model, the indicators in the front lens flash several times and then continue to flash alternately every 5 seconds to indicate that the Siren is operational.

You should now remove the protective film from the front cover.



5. a) If Switch 5 is set to **ON** (C.U), the Siren will operate as an alarm control panel (single Zone).

b) If Switch 5 is set to **OFF** (Siren), the Siren will operate with a separate control panel/Keypad alarm system.

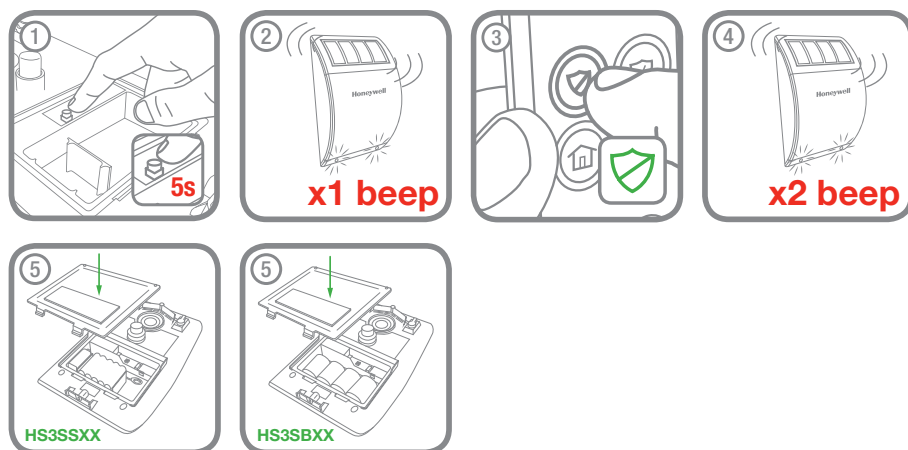
For linking the Siren to the control panel/Keypad, refer to the Installation and Operation Manual for the alarm system.



Linking a new remote control fob to the Siren

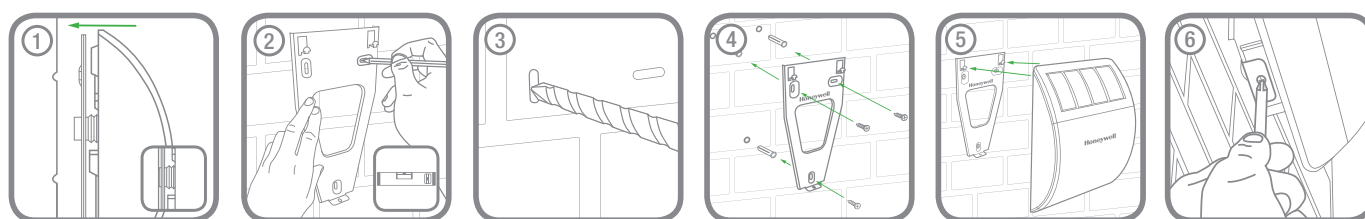
If you set up the Siren without separate control panel (single Zone) for the first time, you must link the Siren to a remote Control Fob before adding other devices. The ID code of the remote control must be learned by the Siren. The Siren can learn up to 6 Remote Control Fobs.

During setup, the Siren will power up in Service Mode, ready to learn a new remote control. If the Siren is in Operating Mode, refer to the section “**Service Mode/Operating Mode**” to switch to Service Mode.



Note: If the Remote Control Fob has already been linked or if the maximum number of 6 Remote Control Fobs are linked, the Siren will emit one long beep and exit Learn Mode. The indicators in the front lens and the Learn indicator will go off.

Mounting the siren to the wall



IMPORTANT: Make sure that the Tamper switch is closed when you mount the Siren to the wall. If the Tamper switch does not close, the Siren will not operate correctly. If necessary, remove the Siren again and insert a spacer between the Tamper switch plunger and the wall to make sure that the switch closes when you mount the Siren to the wall.

CAUTION FOR SOLAR POWERED MODELS ONLY: Before testing or operating the Siren, leave it in position for at least 24 hours in order to fully charge the battery.

LINKING A NEW DEVICE TO THE SIREN


In order to communicate with the Siren, the ID code of the security detector must be learned by the Siren. The Siren can learn up to 12 security detectors (Door Window Sensors or Motion Sensors (PIR)).

During setup, the Siren will automatically power up in Service Mode, ready to learn a new security detector. If the Siren is in Operating Mode, refer to the section '**Service Mode/Operating Mode**' to switch to Service Mode.

1. Press and hold the  button on the remote control for 5 seconds.

The Siren emits one short beep. The indicators in the front lens and the learn indicator flash slowly. The Siren remains in Learn Mode for 30 seconds.

2. For a new Motion Sensor or Door Window Sensor, remove the battery isolation tab or activate the Tamper switch.

For a new Remote Control device, press the  button. The Siren emits two short beeps. The indicators in the front lens and the Learn indicator flash quickly.

Note: If the confirmation signal is not received within 30 seconds, the Siren will exit Learn Mode. Similarly for Remote Controls, except a maximum of 6 devices can be linked. The Siren will remain in Service Mode.

If the device has already been linked or if the maximum number of devices are linked, the Siren will emit one long beep and exit Learn Mode. The indicators on the front lens will go off.

DELETING ALL DEVICES FROM THE SIREN

1. Switch the Siren into Service Mode using the remote control.
2. Remove the Siren from the wall.
3. Press and hold the Learn button for 10 seconds until the Siren emits two long beeps and the Learn indicator flashes 5 times.

The ID codes of all linked devices are erased from memory. The Siren remains in Service Mode.

SERVICE MODE/OPERATING MODE


Note: The Siren is automatically in Service Mode when first powered up and must be switched into Operating Mode before the system can be operated or fully tested.


The siren can be switched between Service Mode and Operating Mode using any linked Remote Control as follows:

Press and hold the  button for 5 seconds:

The Siren will generate the following signals to indicate which mode it is switching into.

If switching into **Service Mode**:

As the  button is pressed the Remote Control will transmit the Disarm signal and the Siren will beep twice as normal. This Disarms the system.

After the  button has been held down for 5 seconds the "Siren Service Mode Toggle" command will be transmitted and the Siren will produce two short beeps followed 1 second later by a single long beep. The Siren LEDs will flash together in conjunction with the beeps. Beeps to be normal volume.



If switching into **Operating Mode**:

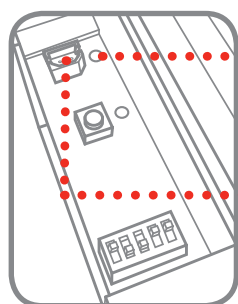
As the  button is pressed the Remote Control will transmit the Disarm signal. The Siren will not respond to this as it is in Service Mode.

After the  button has been held down for 5 seconds the 'Siren Service Mode Toggle' command will be transmitted and the Siren will produce a single long beep followed 1 second later by two short beeps.

The Siren LEDs will flash together in conjunction with the beeps. Beeps to be normal volume.



OPTIONAL MICRO USB CHARGER PORT ON SOLAR MODELS ONLY



**Battery charging
LED indicator**

5V USB port

This port is used to charge the NiMH battery where a 9V Alkaline PP3 booster battery is not fitted during installation. This might typically be used when the NiMH battery is being replaced later and no 9V Alkaline PP3 battery is available to replace at the same time.

Any suitable 5V micro USB adaptor can be used. Whilst charging, the LED indicator next to the battery connection port will flash. When complete, the LED will be constantly lit.

Expected charging times when using the following rated adaptors:

- 5V/1A, around 144 minutes (2.4 hours)
- 5V/2A, around 72 minutes (1.2 hours)

OPERATION

Arming the system

When leaving the premises, the system must be armed. Make sure that the Siren is in Operating Mode. Before arming the system, make sure that all doors and windows are closed and that the available Motion Sensors are not obstructed. Make sure that animals are restricted to areas not protected by Motion Sensors.

The system has 2 armed modes, Instant-Arm and Delay-Arm.

Instant-Arm mode will immediately Arm the system. Once the system is Armed, activating any sensor (i.e. opening a door/windows protected by a Door Window Sensor or moving into a Motion Sensor protected area) will immediately trigger an Alarm. On returning to and entering the property the system must be Disarmed before opening any protected door or entering an area protected by a Motion Sensor otherwise an Alarm will occur. For this reason when using Instant-Arm mode, the system should be Armed and Disarmed from outside the property using the Remote Control.

Delay-Arm mode will Arm the system with a 15 second entry/exit delay. When arming the system in Delay-Arm mode the siren will beep once and then again after the 15 second delay has expired. This allows time for you to leave the property before the system becomes fully Armed. On returning to and entering the property by opening a protected door or moving through a Motion Sensor protected area the system will be triggered and the Siren will emit a single long beep.

However, an Alarm will not sound until the 15 second delay has expired. The system must be Disarmed using either the Remote Control or during the 15 second delay to prevent the Alarm from sounding.

If an Alarm occurs the Siren will sound continuously until the set alarm duration time expires. The alarm will then stop and the system will automatically re-arm itself. This process can be repeated up to 3 times after which time the 'Alarm Lockout' feature will operate and prevent the system from re-arming.

ARMING THE SYSTEM IN INSTANT-ARM MODE

Instant arming means there is no entry/exit delay and the system must be armed when all occupants have exited the home.

The system can be Armed in Instant mode by using the Remote Control as follows:

Press the 'INSTANT-ARM' button 

The Siren will acknowledge the signal by beeping once and flashing both indicator LEDs once.

ARMING THE SYSTEM IN DELAY-ARM MODE

Delay arming provides a 15 second entry/exit period to disarm your system before an Alarm occurs.

The system can be Armed in Delay mode using the Remote Control as follows:

Press the 'DELAY-ARM' button  → 

The Siren will acknowledge the signal by beeping once and flashing both indicator LEDs once. After the fixed 15 seconds exit-delay has expired the Siren will produce a second single beep and flash both LEDs again to indicate the system is fully armed. The Alarm cannot be triggered by activating any Motion Sensor/Door Window Sensor during the 15 seconds exit-delay.

If a Motion Sensor/Door Window Sensor is triggered while the system is armed in Delay-Arm mode the siren will produce a single long beep and long flash of both LEDs. However the Alarm will not sound until the end of the fixed 15 second entry-delay. If the system is Disarmed before the entry-delay expires the Alarm will not sound.

DISARMING THE SYSTEM

The system can be Disarmed using the Remote Control as follows:

Press the 'DISARM' button 

The Siren will acknowledge the signal by beeping twice.

PANIC ALARM

An Alarm can be immediately triggered by the user at any time (whether the system is Armed or Disarmed) in the event of threat or danger by activating the Personal Attack (PA) facility using the Remote Control as follows:

Press and hold the  button for 3 seconds.

This will trigger the alarm and the Siren will sound.

DEVICE TAMPER

If the battery cover of any device (except a Remote Control) is removed or if the Siren is removed from the wall, then an Alarm will immediately occur (unless the Siren is in Service Mode), even if the system is Disarmed.

The Alarm will sound until the set alarm duration time expires or the system is Disarmed from the Remote Control.

LOW-BATTERY CONDITION

If you press the button on the remote control or the remote Keypad when the Siren is at low-battery condition, the Siren will emit three short beeps. If a low-battery indicator is activated, the device will continue to operate for up to 2 weeks. Replace the battery as soon as possible. Before replacing the battery, switch the system into Service Mode. After replacing the battery, switch the system back into Operating Mode.

MAINTENANCE

SOLAR MODELS

The alarm system requires little maintenance. If you must power down the system completely, switch the system into Service Mode before removing the Siren cover and disconnecting the rechargeable main battery and the initial power-up battery. Make sure that the solar panel is covered with a lightproof material to prevent the solar panel from powering the Siren.

1. Clean the solar panel using a soft, damp cloth every 6 months, preferably in spring and autumn. Do not use abrasive, solvent-based or aerosol cleaners. Do not clean the inside of the Siren or allow water to enter the Siren to make sure that the solar panel keeps receiving all the available light.
2. Do not leave the solar siren for long periods with the batteries connected, unless the Siren is able to receive sufficient light to maintain the battery charge. If the battery charge is not maintained, the rechargeable main battery will run unacceptably low and the Siren must be recharged from a 5V micro USB adaptor (see page 9). Install a new initial power-up battery (9V alkaline, PP3) to make sure that the Siren receives sufficient power until the solar panel can recharge the main battery.
3. Do not leave the rechargeable main battery in a discharged state for long periods. The rechargeable main battery has a typical life of 3-4 years and does not require any maintenance.

BATTERY POWERED MODELS

Replace the batteries approximately once every 18 months or whenever indicated by a low battery warning. If the LEDs on the front lens stop flashing then replace the batteries immediately to continue protecting your home. After repowering the Siren, it will enter Service Mode. Replace only using 4 x 1.5V Alkaline D (LR20) batteries or equivalent.