

SITE ALERT RF SITE EVACUATION ALARM

USER MANUAL

Models: SAo2M, SAo2S, SAo2HD



**DO NOT DISCARD – ESSENTIAL
INFORMATION IS CONTAINED IN THIS
MANUAL**

Issue 3
15/01/2017



Purpose

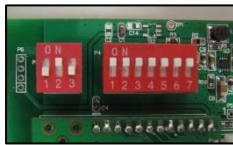
The SITE ALERT RF is designed to alert the occupants of a building or site in the event of an emergency such as a fire. The SITE ALERT RF is a self-contained, battery operated alarm unit which can be linked wirelessly with up to 30 other units, so that the operation of one unit will cause all other linked units to sound. The SITE ALERT RF is specifically designed for use on construction sites and other temporary situations, where a conventional fire alarm system is not appropriate.

Instructions for Use

Each SITE ALERT RF system must have a Master Unit (SA02M). Up to 30 Subsidiary Units (SA02S) or Detectors (SA02HD or SA02SD) can be connected to the Master unit to create a system of interconnected units.

Before installation:

- 1) Decide how many Site Alerts will be linked together on the system
- 2) Remove screw from the front of each Subsidiary Unit.
- 3) Open the cover and set the address for each Subsidiary unit using the DIP switches (see DIP switch address diagram)



- 4) Connect the 2 sets of batteries. The red LED in the switch will pulse regularly, indicating that the Subsidiary unit is not yet connected to the Master unit.
- 5) Once all Subsidiary units have been addressed and have the batteries connected, open the Master unit and **set the Master unit address on the DIP switches the same as the last Subsidiary unit** (i. e. highest numbered address). Insert the batteries. To access the D cell battery holders, two screws holding the white plastic section must be removed and the white section will slide out towards you. Take care when re-securing the white plastic section, to avoid trapping the wires. The white plastic section should be secure, but do not overtighten the screws. Connect the 2 sets of batteries in the Master unit.
- 6) The red LEDs on the switches on each Subsidiary unit will stop pulsing once they have established contact with the Master unit.

Heat Detectors

Detectors are set-up and addressed in the same manner as a Subsidiary Unit. To access the DIP switches and batteries, remove the detector head by twisting anti-clockwise, and then remove the Pozi screw behind the detector. 3 x C-cell batteries should be fitted in the designated battery holder, and 1 x 9V (PP3) battery should be fitted in the rear of the white detector. (see page 6). Once the batteries are connected the LED on the outer casing will pulse until the Detector is connected to the Master unit.



Since heat rises to the highest point first, the detector should be securely mounted horizontally, as close as possible to the ceiling. Avoid mounting the detectors within 500mm of a wall, light fitting or other obstruction (e.g. beam). (Further information regarding the siting of detectors, which may be helpful, is available in BS5839-1)

The 9 volt battery in the detector head is located under the battery pocket door – the head will need to be removed by twisting it anticlockwise. The detector should be tested on a weekly basis, by pressing and holding the test button.

The detector should be kept clean, and any dust removed on a regular basis to ensure that its sensitivity is not reduced. The detector should never be painted.

The detector is powered by a single alkaline 9V PP3 battery, readily available. The detector will emit an intermittent ‘beep’ when the battery requires replacement.

Mounting the Site Alerts

The Site Alerts can now be mounted in the desired locations. The Master unit should be mounted in a central location, within range of all the Subsidiary units. There are fixing holes in the backplate of each unit. Each unit should be securely mounted to prevent damage by dropping or falling, and it should be mounted as high as is reasonably practicable (recommended: 1.5m). The cover can then be replaced using the fixing screw.

In general the Site Alerts should be sited on exit routes in easily accessible places, which are unlikely to be obstructed. Units should be sited so that it is possible to reach a Site Alert from any point in the building within 45m. The stairwells are ideal locations. This ensures that Howlers are in easy reach of personnel and that the sound levels are adequate to warn all persons present. **Wherever possible, Site Alerts should be mounted on mobile fire points or backboards so that they can be repositioned easily and quickly.**

If the red LED in the switch of any Subsidiary unit starts to pulse during the installation process, this indicates that it has lost contact with the Master unit, and a better location should be found. On large projects, some patience may be required to ensure that the best location for each unit is found.

Once all units have been mounted, and no LED switches remain flashing, the system is now ready for use.



Testing:

The SITE ALERT RF system should be tested after installation and weekly thereafter to ensure correct operation. **Push and hold** the switch on any unit until the alarms sound. Reset the system by pushing the switch on any unit three times in succession. The sirens will continue to sound for a brief period then will silence.

The SITE ALERT RF monitors the connections between units continually. If any Subsidiary unit becomes disconnected from the Master unit, the red LED in the switch of the Subsidiary unit will pulse regularly. This unit should be re-positioned to a location where connection can be re-established. Please note that in buildings where the layout is changing frequently, disconnections will occur, and the user should be aware of this.

If it seems difficult to regain connection, taking the Subsidiary Unit to the Master Unit, and powering down both units (disconnecting the batteries) and powering them up again will restore the connection.

Batteries:

The SITE ALERT RF units are powered by standard alkaline batteries. **These should be replaced at least annually.** Disconnect the old batteries and dispose of them safely. Position the new batteries in the same manner and re-connect. If the SITE ALERT RF is in storage for any length of time, disconnect the batteries.

The SITE ALERT RF has an automatic battery test facility. If the 9V (PP3) battery requires replacement two LEDs on the beacon will illuminate. If the 1.5V batteries require replacement the LED in the switch will flash intermittently (...-...-...-...-...- etc.). The Master unit contains 8 x 'D' cell batteries, and the Subsidiary units contain 3 x 'C' cell batteries. The LED in the switch in the Master unit will pulse regularly if any Subsidiary unit becomes disconnected. Likewise, the LED in the switch in the Master unit will flash intermittently (...-...-...-...-...- etc.) if the 3V batteries in any of the Subsidiary units is low.

NB: Low batteries can cause disconnections, so always check the batteries if disconnections are occurring between the Master and Subsidiary units.

Spare parts:

Batteries are available from your SITE ALERT RF supplier. Use only high quality alkaline batteries (Duracell Procell, Energizer, or equivalent)

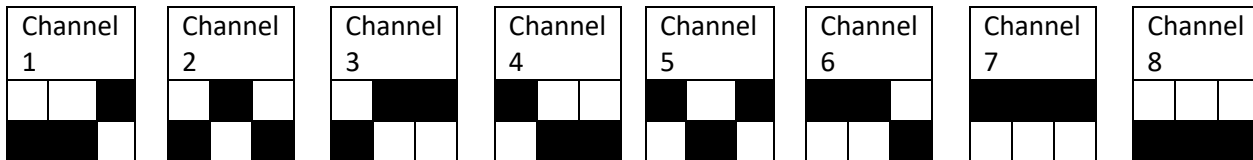
Running more than 30 units

If more than 30 Subsidiary units are required to operate in close proximity, it is possible to operate up to 7 other systems on different channels. In order to set up a system on a different channel, DIP switches are used to re-code the system. See the DIP switch channel address diagram for further information. Units on different channels do not link together.





DIP Switch Channel Address Diagram

The **white** squares indicate the switch positions.

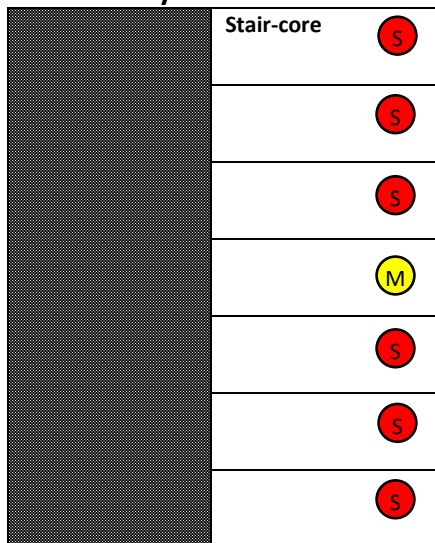


Typical Site Layouts

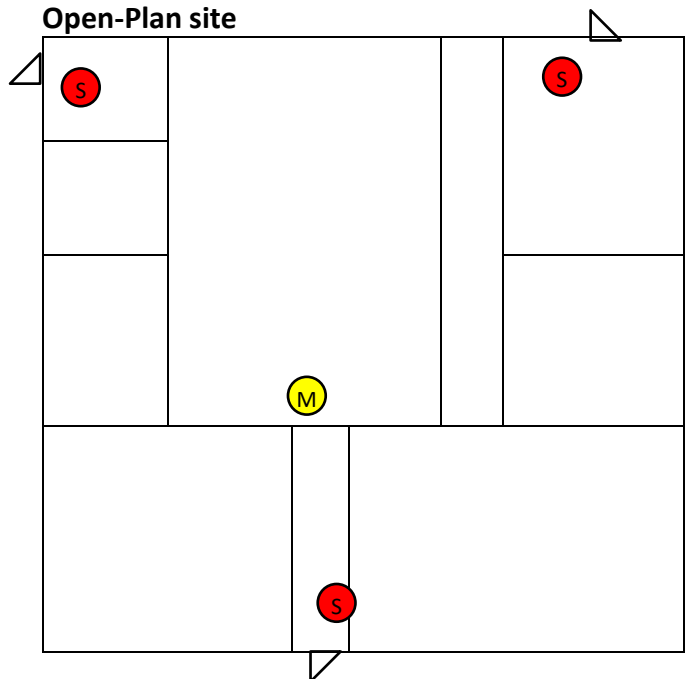
 = Subsidiary unit

 = Master unit

Multi-storey Block



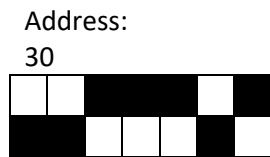
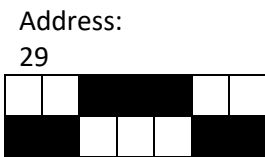
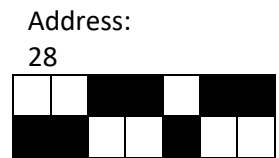
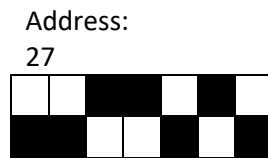
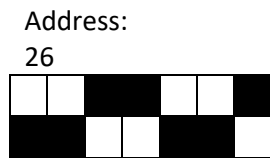
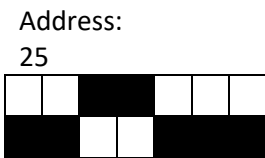
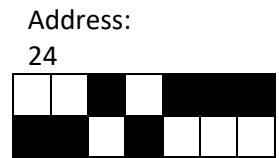
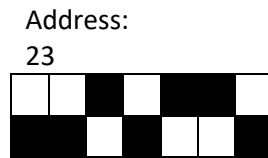
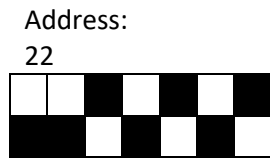
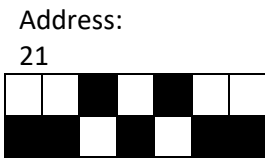
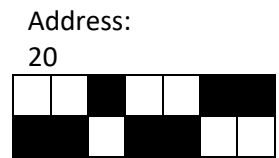
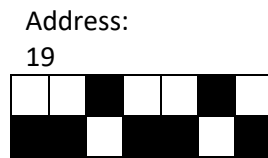
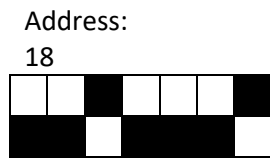
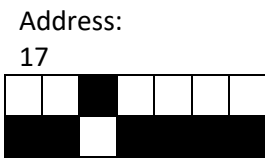
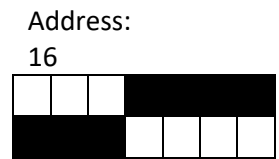
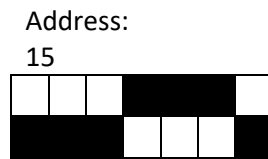
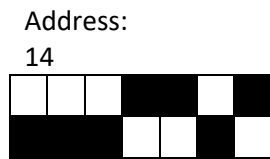
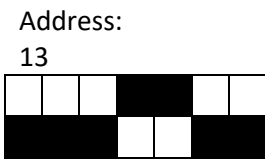
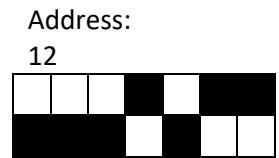
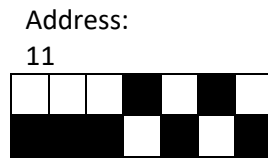
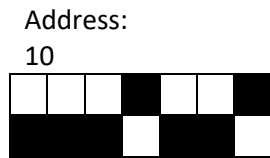
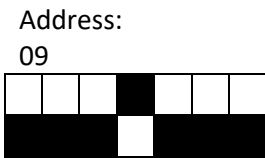
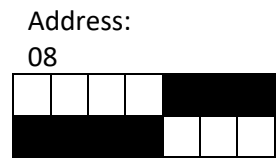
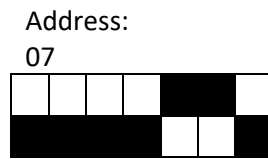
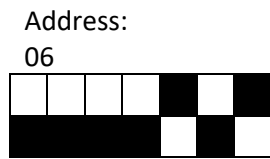
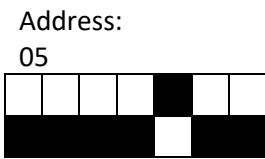
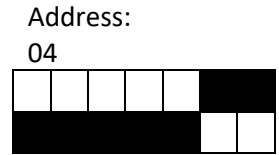
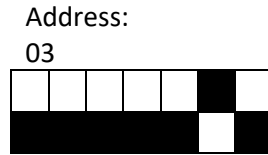
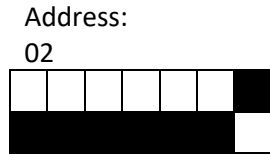
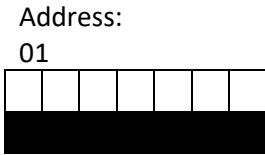
Open-Plan site





DIP Switch Address Diagram

The **white** squares indicate the switch positions.





HOW TO READ THE SIGNALS

These two LEDs illuminate if the 9V (PP3) battery needs replacing



The screw to open the unit is located here

The LED in the switch pulses regularly and constantly if the units has lost connection with the Master

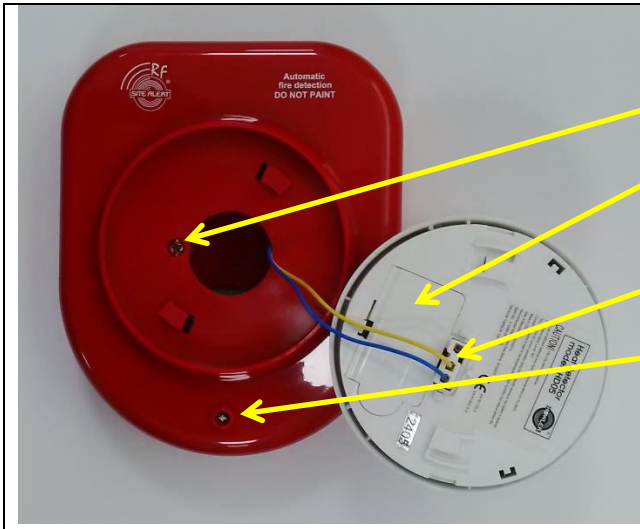
The LED in the switch flashes intermittently (... - ... - ... - etc.) if the C-cell batteries need replacing



INSIDE THE SITE ALERT

	<p>MASTER UNIT</p> <p>DIP Switch for addressing – the address for the Master unit should be the same as the highest number Subsidiary unit on the system (see p. 4)</p> <p>Connector blocks from D cell battery packs</p> <p>Screws to access battery pack – secure firmly but do not over-tighten</p> <p>9V (PP3) Alkaline battery for the siren</p> <p>8 no. 'D' cell Alkaline batteries for the radio linking</p>
--	---

	<p>SUBSIDIARY UNIT</p> <p>DIP Switch for addressing – the address for the Master unit should be the same as the highest number Subsidiary unit on the system (see p. 4)</p> <p>9V (PP3) Alkaline battery for the siren</p> <p>3 no. 'C' cell Alkaline batteries for the radio linking</p>
--	--



DETECTOR

Screw to access battery pack and DIP switches

9V (PP3) Alkaline battery for the detector behind this flap

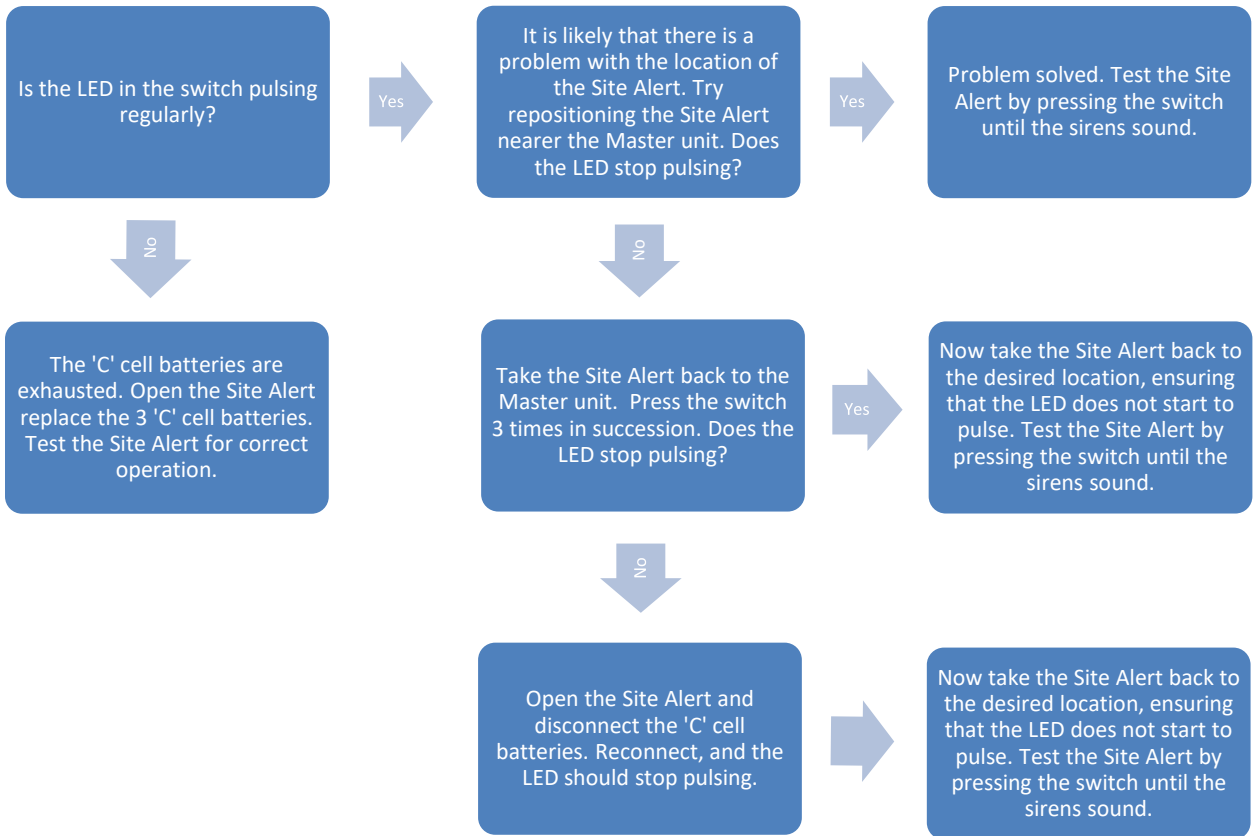
Connector lead for the detector

LED indicator light. The LED in the switch flashes intermittently (... - ... - ... - etc.) if the C-cell batteries need replacing. The LED in the switch pulses regularly and constantly if the units has lost connection with the Master.

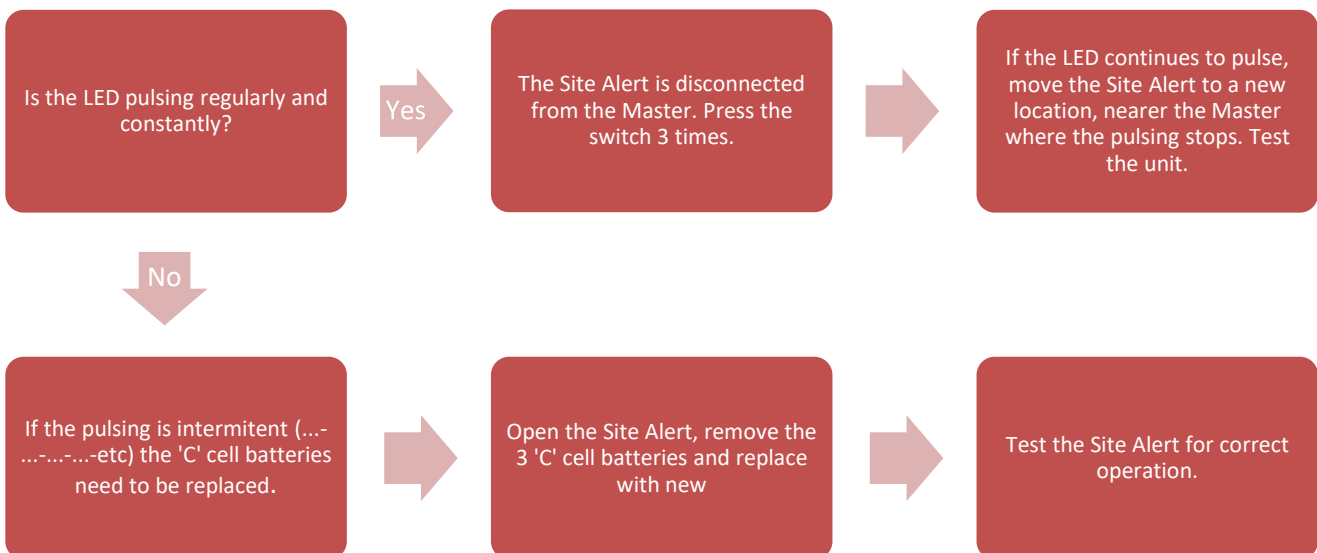


Trouble Shooting

1) Site Alert Subsidiary not sounding when system activated

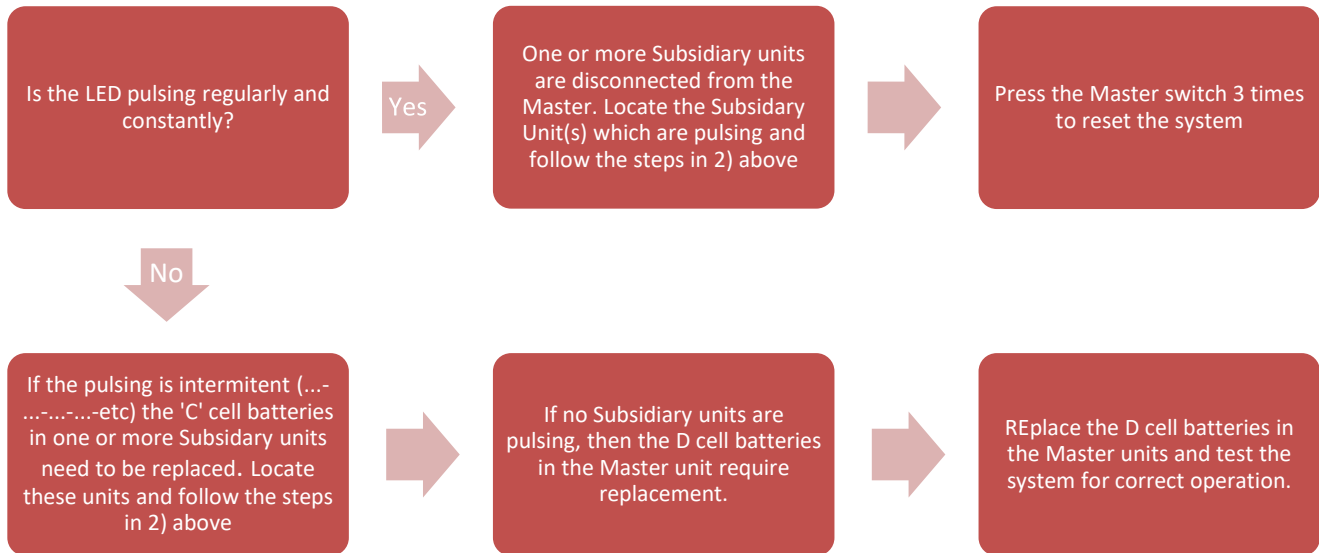


2) Site Alert Subsidiary Switch LED is flashing





3) Site Alert Master Switch LED is flashing





Technical Data

Model numbers	SA02M	SA02S
Power supply	1 x 9V PP3 battery 8 x 'D' battery	1 x 9V PP3 battery 3 x 'C' battery
Battery manufacturer	Energizer, Duracell or equivalent	
Dimensions	160x260x100mm	160x260x62
Operating temperature	-15°C to +40°C	
Operating Frequency	868MHz	
Operating Environment	Indoor or Outdoor use	

Model numbers	SA02HD	SA02SD
Power supply	1 x 9V PP3 battery 3 x 'C' battery	1 x 9V PP3 battery 3 x 'C' battery
Battery manufacturer	Energizer, Duracell or equivalent	
Dimensions	180x150x80mm	
Operating temperature	-5°C to +40°C	
Operating Frequency	868MHz	
Operating Environment	Indoor use	

Safety Information

- The SITE ALERT RF emits a very loud sound when in the alarm state, and the user should avoid prolonged exposure to the sound within a 1m range, without hearing protection.
- Use only replacement batteries recommended by the manufacturer.
- Do not use Lithium batteries. The equipment does not have a battery re-charging facility. **CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.**
- Dispose of used batteries in accordance with manufacturer's instructions.
- Failure to operate this product in accordance with these instructions will invalidate any warranty, and may cause harm. Protection provided by this equipment may be impaired if used in a manor not specified by the manufacturer.
- CLEANING: If the equipment becomes dirty, it can be wiped down with a damp cloth. Do not immerse the product in water or subject it to water streams.
- IMPORTER: Howler UK, Inspiration Place, 1-4 Mitchell Road, Wimborne, Dorset, BH21 7SG

Technical Assistance

For further information and technical assistance contact: **Howler UK** T: +44 (0)330 7000 777

E: info@howleruk.com