User Manual

HiSPEC
LIFE SAFETY & HOUSING SOLUTIONS

Model: HSA/BH/10 & HSA/BH/RF10-PRO
Sealed Battery Operated
Heat Alarm with 10-Year Life



INTRODUCTION

HSA/BH/10 is a Heat Alarm which is designed to operate as a standalone unit. Where wireless Interconnecting is necessary, a radiofrequency alternative (HSA/BH/RF10-PRO) can be purchased and up to 20 compatible devices can be interconnected and thus allowing all alarms to sound when any one is activated.

SPECIFICATION

Power Supply:	Non-Replaceable Lithium Battery
Temperature Ambient:	0°C to 40°C
Detection Type:	Fixed Heat Thermistor (A1)
Humidity Ambient:	10% to 90% (non-condensing)
Max Wireless Interconnection:	20 Units
Max Wireless Distance:	30m (Enclosed) 80m (Open)
Alarm Sound Level:	85 Decibels at 3m
Approved by BSI to:	BS EN 14604:2005, BS 5446-2:2003
Associate Standard:	BS 5839-6:2019 GRADE F1

SAFESPEC
APP COMPATIBLE

bsi
KM 792789
BS 5446-2:2003

Diagram

Fig.1 Back View

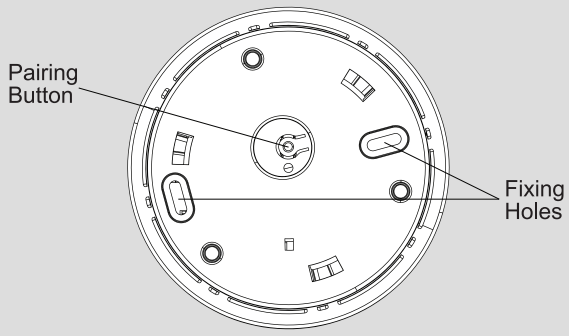


Fig.2 Front View

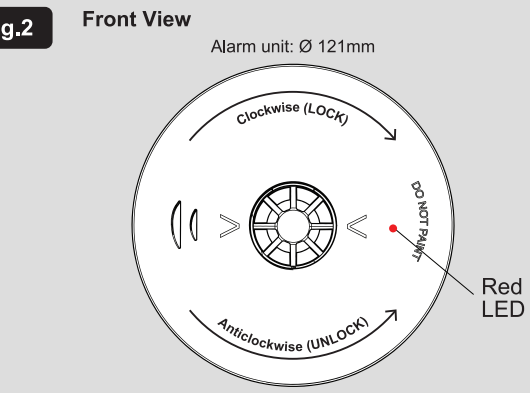


Fig.3 Side View

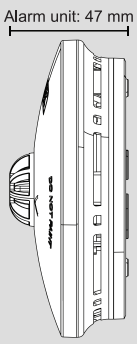
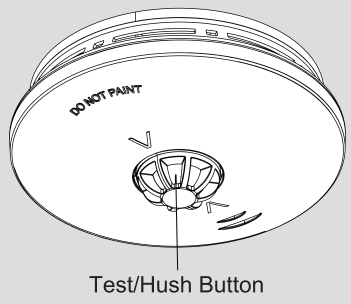


Fig.4 Installed View



POSITIONING OF THE ALARM

- Heat alarms are intended to be supplementary to smoke alarms and should only be placed in areas where smoke alarms cannot be used.
- All Fire Alarms should be interconnected to ensure the early warning will be heard, particularly by somebody sleeping. A properly designed early warning fire system ensures the alarm is given before the escape routes become blocked with smoke. This heat alarm gives a fire warning when the temperature at the unit reaches 60ºC. It is ideal for kitchens, garages, cellars, boiler rooms, attics and other areas where there are normally high levels of fumes, smoke or dust which preclude the use of smoke alarms due to the risk of false alarms.
- If your dwelling is on a single storey, for minimum protection you should fit an alarm in a corridor or hallway between the sleeping and living areas (incl. Kitchens). Place it as near to the living areas as possible and ensure the audible alarm can be heard when the bedrooms are occupied. See **Figure 7** for examples.
- If your dwelling is multi-storey, for minimum protection one alarm should be fitted at the bottom of the staircase with further alarms fitted on each upstairs landing. This includes basements but excludes crawl spaces and unfinished attics. See **Figure 7** for examples.

NOTE: For maximum protection an alarm should be fitted in every room (except bathrooms).

Ceiling Mounting

- As hot smoke rises and spreads out, it is advisable to mount on a ceiling in a central position. Avoid areas where there is no air circulation. E.g. Corners of rooms and keep away from items which may prevent the free flow of air. Place the unit at least 300 mm from any light fitting or decorative object which might obstruct smoke entering the alarm. Keep at least 300 mm away from walls. See **Figure 5**.

Wall Mounting

- Do not mount tight into the corners. Put the top edge of your fire alarm between 150 and 300mm below the ceiling. Keep at least 300mm from room corners. See **Figure 5**.

On a Sloping Ceiling

- In areas with sloping or peaked ceilings install your alarm in accordance with **Figure 7** because “dead air” at the apex may prevent smoke/heat from reaching the unit.

Fig.5 Positioning the smoke/heat alarm

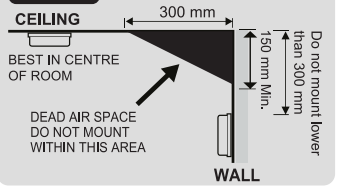


Fig.6

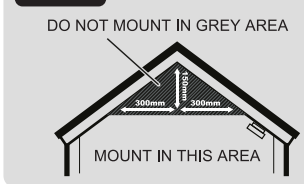
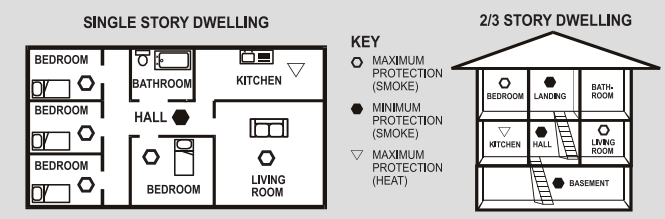


Fig.7



AVOID THESE LOCATIONS

- Situations where the temperature may fall below 0°C or rise above 40°C for extended periods.
- Humid areas such as BATHROOMS, SHOWER ROOMS where the relative humidity may exceed 90% as vapour will cause false alarms.
- Near a DECORATIVE OBJECT, DOOR, LIGHT FITTING, WINDOW MOULDING etc.,that may prevent hot air from entering the alarm.
- Adjacent to or directly above hot components such as RADIATORS or WALL VENTS that can affect the direction of air currents.
- In VERY DUSTY OR DIRTY environments such as workshops.
- Locate alarm at least 1.5m and route wiring at least 1m away from FLUORESCENTLIGHT FITTINGS as electrical ‘noise’ and/or flickering may affect the alarm. Do not wire into same circuit as fluorescent lights or dimmers.
- Do not locate in INSECT INFECTED AREAS, insects and contamination on the alarm sensor can increase its response time.

INSTALLATION

Important Safety Notices:

- This Alarm should be installed by a competent person
- The Battery is Non-Replaceable, any attempt to replace the battery may cause electric shock and/or explosion
- Do not attempt to open the alarm under ANY circumstances

RF10-PRO devices can be Wirelessly Connected to other HiSPEC Alarms of the same type, this alarm can be connected with up to 19 other devices in total, this Alarm can also operate as a standalone unit.

RF-PAIRING should be done prior to mounting, the RF-PAIRING button is only accessible prior to mounting. Refer to the section titled **RF WIRELESS INTERCONNECTION** for Wireless Pairing Instructions.

Data Extraction:

To extract Actuation Data From this Alarm follow the information provided in the SafeSpec App.

SAFESPEC

Download data from this fire alarm and export reports via the Safespec app.
Download Safespec for IOS and Android by scanning the QR code.

IOS Android

1. Open the Safespec App, press 'Download Alarm Data'.
2. Press 'Test/Silence' 4 times, triggering extraction noise.
3. Hold the phone facing the alarm until the status Report appears.

RF WIRELESS INTERCONNECTION (HSA/BH/RF10-PRO only)

To commence wireless pairing, all Alarms must be switched on. The Alarm switches on when the baseplate is twisted onto the Alarm head. Align the baseplate with the Alarm and rotate the Alarm in a clockwise direction.

Fig.8 Front View

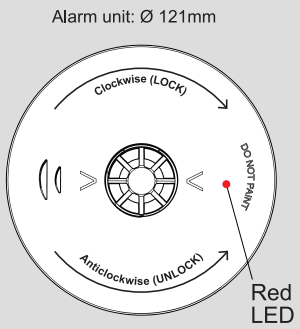
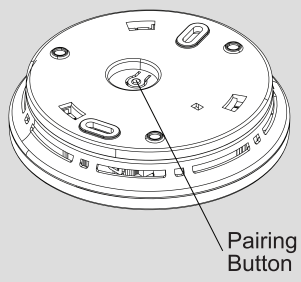


Fig.9



To ensure the Alarm is switched on press and release the test button on the front, a loud Alarm should briefly sound. You can now begin pairing.

1. On First Alarm:

- Press and hold the Pairing Button for 5 seconds until the Red LED lights up.
- The Red LED will stay ON for 2.5 minutes, this indicates the alarm is in Pairing Mode.

2. On ALL Additional Alarms

- Press the Pairing Button 2 times, the Red LED will flash 5 times.
- The Alarm is now paired.

NOTE: The Alarms can only be tested when the First Alarm is out of Pairing Mode, the First Alarm will automatically exit Pairing Mode after 2.5min.

3. Clearing Pairing Memory

- To clear RF Pairing, Press the Pairing button 5 times and the Red LED light will flash 10 times.

4. Testing

- Prior to MOUNTING ensure all of the Alarms are connected.
- Press and hold the Test button for at least 20 Seconds on any Alarm and ensure they all sound.

NOTE: The Alarms will remained paired even when removed from their mounting base.

MOUNTING

Before installing the fire alarm, it is crucial to thoroughly review the provided instructions. The fire alarm is composed of two parts: the mount base assembly and the alarm unit. It is recommended to keep the alarm unit protected by a plastic dust cover; and separate it until the building commissioning phase. This phase usually involves activities like sanding, preparing for painting, actual painting, and floor laying.

Please follow these steps to mount the fire alarm:

1. Choose a suitable location on the ceiling that complies with section **POSITIONING OF THE ALARM.**
2. Separate the mounting base from the alarm head.
3. Locate the mounting plate on the ceiling in its exact final position and mark the location of the screw holes.
4. Using a 5mm drill bit, drill the hole locations. Be vigilant of any electrical wiring or pipework in the area.
5. Insert the provided Wall Plugs into the holes and screw the mounting plate to the ceiling. **DO NOT OVER TIGHTEN.**

DUST COVER

The fire alarm is enclosed in a plastic dust cover for the following reasons:

1. To provide protection for the alarm unit from dust during the building construction phase.

Keep the alarm head, while in the dust cover, separate until the building commission phase to prevent dust accumulation and battery degradation.

During the commissioning process, it is necessary to remove the dust cover and securely attach the alarm unit to the mounting base.

COMMISSIONING

STEPS TO ACTIVATE THE FIRE ALARM:

1. Remove the alarm unit from the dust cover.
2. Fill out the ‘Date of Installation’ Label located on the side of the alarm.
3. Align the fixing points on the head unit with the plastic lugs on the mounting base.
4. Rotate the Alarm head Clockwise until it turns no further. The battery activates when twisting into the mounting base.

   Note: The battery will activate once the alarm unit is inserted into the mounting base. It is designed to provide a 10-year lifespan during regular operation.
5. The alarm is now securely attached to the mounting base, a red flashing LED will illuminate every 40-60 seconds to signal normal operation. If any other sequence of flashing LEDs occur, refer to the **INDICATION AND ACTION** section of this manual.
6. Press and HOLD the test button for up to 20 seconds, the alarm will sound and trigger any other interconnected units within this period.
   Note: After the Test/Hush button has been pressed, wait 10 minutes before any additional testing is conducted to avoid any abnormal responses as the smoke alarm is less sensitive to smoke during this period.

WARNING: In case you encounter frequent false alarms, we recommend relocating the device away from any potential fume sources. If the alarm continues to trigger false alarms even when there is no smoke present, it might require maintenance or cleaning.

OPERATION

This alarm has a built-in feature to detect the power source. In normal operation, to the guidelines and specification in this instruction manual, the alarm will last for 10 years from the installation date.

The Alarm must be replaced after 10 years, sensitive electronic components used within Smoke Alarms may become less effective after this time.

WARNING: THIS ALARM IS POWERED BY AN INTERNAL SEALED LITHIUM BATTERY AND CANNOT BE CONNECTED TO ANY OTHER POWER SOURCE.

TESTING

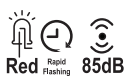
It is recommended that you test your alarm once a week to ensure the alarm is working correctly. Push and hold the test button for approximately 3 seconds (at least 20 seconds to trigger other alarms). A loud pulsating alarm should sound and a RED indicator light (LED) will flash at the same time.

Note: *For multiple interconnected alarms, only the RED indicator light (LED) of the originating unit will flash rapidly. All other units in the interconnect system will sound an alarm but their RED indicator light (LED) will NOT flash. Test each alarm checking that the alarm is triggered on all other alarms installed.*

WARNING: Never use an open flame of any type to test your alarm.

WARNING: Do not apply excessive force on the "HUSH/TEST" button this may damage the smoke alarm and may void the warranty.

Featured LED and Alarm Signal



Fire Warning Signal
The smoke alarm will sound a loud alarm (85 dB) and the red LED will flash rapidly. This will continue until the air is cleared.



Standby
The red LED flashes once every 40-60 seconds to indicate the smoke alarm and battery are functioning correctly.



Memory Function
If one of the alarm indicators (RED LED) is flashing every 4 seconds, it indicates that a smoke alarm has previously been activated.



Low Battery
The smoke alarm indicates a low battery by flashing the red LED once and emitting a chirp every 40-60 seconds.

HUSH OR SILENCE FUNCTION

• This fire alarm has a built-in Hush or Silence feature incorporated into the Test/Hush button. If cooking or other non-hazardous sources cause the alarm to sound, it can be temporarily silenced by pressing the Test/Hush button for 1 second. The alarm will then enter a dormant period for 10 minutes.
After the 10 minute dormant period, the fire alarm will resume normal operation.
Note: *After the Test/Hush button has been pressed, wait 10 minutes before any additional testing is conducted to avoid any abnormal responses as the smoke alarm is less sensitive to smoke during this period.*

• This fire alarm has a self-diagnosis. If the alarm detects the battery is low and/or an internal fault, it will chirp. This alarm can be temporarily silenced by holding the Test/Hush button for 1 second. The alarm will not chirp for 10 hours but the alarm will continue to function. It is recommended to replace the alarm as soon as possible after this period of time.
Note: *Silence will not affect the basic fire warning functions of a smoke alarm. During the silenced period, if the smoke alarm detects any smoke, it will still emit a fire signal.*

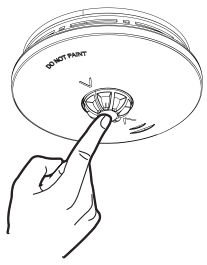


Fig.10

False alarm
(False Alarm) → **HUSH**
10 Minutes

Low Battery
and/or
Fault Alarm → **SILENCE**
10 Hours

IMPORTANT SAFEGUARDS

Installation of your alarm is only one step in your safety plan. Other important steps should be taken to further improve your safety:

- Install the alarm properly, following this instruction leaflet
- Test your alarm weekly
- Do not smoke in bed
- Keep matches & lighters away from children
- Store flammable materials in a proper manner and never use them near naked flames or sparks
- Maintain emergency equipment such as fire extinguishers, escape ladders etc and ensure all occupants know how to use them correctly.
- Plan an escape route/s from your building in advance and ensure all occupants are aware of them. Re-enforce this awareness periodically throughout the year. See below planning:
  - Create a floor plan that identifies all doors and windows, as well as at least two escape routes from each room. Note that for second-storey houses, rope or chain ladders may be necessary.
  - Hold a family meeting to discuss and review your escape plan, ensuring that each member understands what to do in case of a fire.
  - Designate a predetermined location outside of your home where all family members can meet in the event of a fire.
  - Ensure that everyone is familiar with the sound of the smoke alarm and conduct regular practice drills of leaving the home when it goes off.
  - Conduct fire drills at least every six months, including night-time drills.
  - Practicing your escape plan allows you to test its effectiveness before an actual emergency. It is crucial that every member of the household is aware of the plan, as they may need to act quickly and independently in the event of an emergency.

IN CASE OF FIRE

Developing and practicing a plan of escape is essential for ensuring the safety of your household in the event of a fire. When the fire alarm sounds, it is crucial that you follow the steps outlined below:

- Evacuate the building immediately using your pre-determined escape plan. Time is crucial, so do not waste time getting dressed or retrieving valuables.
- While exiting, check the surface of internal doors before opening them. If the door feels hot or smoke is seeping through cracks, do not open it. Instead, use an alternative exit. If the door feels cool, gently open it, placing your shoulder against it, and be prepared to swiftly close it if heat or smoke rush in.
- If the air is smoky, stay close to the floor and try to breathe shallowly through a damp cloth if available.
- Once outside, proceed to your designated meeting point and ensure that all family members are present.
- Call the Fire and Rescue Services from a neighbour's home, not from your own.
- Do not re-enter your home until officials confirm that it is safe to do so.
  For additional information on fire safety, please contact your local Fire and Rescue Services.

MAINTENANCE, REPAIRS, AND SERVICE

To ensure your fire alarm is properly maintained, repaired, and serviced, it is crucial to follow the appropriate guidelines. Please review the information provided below:

Maintenance:
To optimise performance, it is advised to conduct a monthly inspection of your alarm. Check for any accumulation of dirt, dust, or insects. You can use a vacuum cleaner or a soft brush to gently remove any debris. Additionally, wiping the alarm with a damp cloth will help deter insects. After cleaning, always test the fire alarm to confirm it is functioning correctly.

Repairs / Servicing:
If you encounter a defective fire alarm, it is important not to attempt any repairs yourself. The unit does not contain parts that can be serviced by the user. Instead, it is recommended to seek professional assistance for replacement or servicing.

DISPOSAL
DO NOT ATTEMPT TO DISPOSE OF THE ALARM IN A FIRE
This Alarm should be disposed of at your local recycling centre, for further advice on safe disposal of Alarms contact your local authority.

LIMITATION OF FIRE ALARMS

- Fire alarms are not designed to protect life safety against fire and smoke. In most fires, hazardous levels of toxic gases and smoke can build up before the alarm will operate. Fire alarms should only be used to provide an added source of protection.
- Fire alarms cannot provide an alarm if smoke or heat does not reach the unit. Therefore, fire alarms may not sense fires starting in chimneys, walls, on roofs, on the other side of a closed door or on a different floor. Home fires develop in different ways and are often unpredictable.
- Standard fire alarms do not effectively alert individuals who have hearing impairments. For those with hearing impairments, it is advised to use specialised devices such as Hispec Strobe Lights and Vibrating Pads to ensure everyone in the building is alerted during a fire emergency.
- By being aware of these limitations, individuals can take proactive measures to optimise the effectiveness of their fire alarms and prioritise their safety by taking appropriate precautions against the risks of fire.

INDICATION AND ACTION

If you notice any signals from the fire alarm and you're unsure about its state, consult the provided table below for the "LED Indicator" and "Sounder" of your smoke alarm. This table will assist you in identifying the current status of the alarm and the necessary steps to take.

Should you need additional help, we suggest contacting our technical support for any inquiries. The contact details can be found in this manual.

STATUS	LED INDICATOR	SOUNDER	ACTION REQUIRED
Standby Mode	Red LED 1 flash every 40-60 sec	None	Fire alarm in standby condition, powered by internal sealed battery power.
Fire Alarm Mode	Red LED flashing rapidly until fire is clear	Chirping rapidly until smoke is clear	Fire alarm detects fire. See section - "In case of fire"
Test Mode	Red LED flashing rapidly (flash pattern sync with the sounder)	Chirping rapidly (Chirp pattern sync with the Red LED)	Release test button to cease test mode.
Low Battery Warning	Red LED 1 flash every 40-60 sec	1 short chirp every 40-60 seconds (Chirp pattern sync with the Red LED)	The battery is low. Check Section - "Maintenance, Repairs, and Service" for further details.
Memory Function	Red LED 1 flash every 4 seconds, lasting 72 hours	None	This indication will last for 72 hours. Then, it will automatically resume to standby mode. No action required.
Unit Fault	Red LED 2 short flashes every 40-60 seconds	2 short chirps every 40-60 seconds (Chirp pattern sync with the Red LED)	The alarm unit is faulty. Check Section - "Maintenance, Repairs, and Service" for further instruction.

GUARANTEE

WARNING: DO NOT ATTEMPT TO OPEN THE HOUSING.

This alarm is in guarantee under normal use and service for a period of 5 years (including battery) from date of purchase. The company will not be obligated to repair or replace parts which are found to be in need of repair because of misuse, damage or alterations present after the date of purchase. If the alarm is proven to be faulty, within the guarantee period, it must be returned to where it was purchased, carefully packaged, with the fault clearly stated along with proof of purchase. The liability of the company arising from the sale of this alarm shall not in any case exceed the cost of replacement of alarm and in no case shall the company be liable for consequential loss or damages resulting from the failure of the alarm.

CE	UKCA
HiSPEC Electrical Products Ltd., Chorley, Lancs, England **18** Technical Documentation Held by Manufacturer	HiSPEC Electrical Products Ltd., Chorley, Lancs, England **25** Technical Documentation Held by Manufacturer
Heat Alarm Devices: HSA/BH/10 & HSA/BH/RF10-PRO	Heat Alarm Devices: HSA/BH/10 & HSA/BH/RF10-PRO

HISPEC ELECTRICAL PRODUCTS LTD. SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE, OR ANY SPECIAL INCIDENTAL, CONTINGENT OR CONSEQUENTIAL DAMAGE OF ANY KIND RESULTING FROM A FIRE. THE EXCLUSIVE REMEDY FOR BREACH OF THE LIMITED WARRANTY CONTAINED HEREIN IS THE REPAIR OR REPLACEMENT OF THE DETECTIVE PRODUCT AT HISPEC ELECTRICAL PRODUCTS LTD. OPTION. IN NO CASE SHALL HISPEC ELECTRICAL PRODUCTS LTD.'S LIABILITY UNDER ANY OTHER REMEDY PRESCRIBED BY LAW EXCEED THE PURCHASE PRICE. YOUR ALARM IS NOT A SUBSTITUTE FOR PROPERTY, DISABILITY, LIFE OR OTHER INSURANCE OF ANY KIND. APPROPRIATE COVERAGE IS YOUR RESPONSIBILITY. CONSULT YOUR INSURANCE AGENT.

This does not affect your statutory rights. This alarm is only suitable for residential dwellings and is not suitable for commercial or industrial use.

Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. New regulation will encourage the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005).



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