

USER MANUAL

HISPEC
LIFE SAFETY & HOUSING SOLUTIONS

Model: HSA/BP/RF10-PRO
Radio Frequency Lithium Battery
Smoke Alarm with 10 Year Sealed
Lithium Battery



REPRO

INTRODUCTION

HSA/BP/RF10-PRO is a radio frequency lithium battery smoke alarm that offers reliable smoke detection with the convenience of a 10 year sealed lithium battery. Featuring radio frequency interconnectivity, this battery powered detector ensures continuous protection and seamless integration with other safety devices in your system.

MAIN FEATURES

- Optical sensor for slow smouldering fires
- Wireless interconnection using radio links (Self learn pairing)
- 10 year lithium battery
- Hush feature
- Power & alarm test button
- Low battery warning
- Loud 85dB alarm signal
- Supplied with wall plugs & screws
- Pre-warning fault signal
- Compatible with the control unit HSSA/CU/RF10-PRO

SPECIFICATION

Power Source:	3V lithium battery
Battery Life:	10 year (<i>Sealed</i>)
Sensitivity to Smoke:	0.08 – 0.18 db/m
Temperature Ambient:	0°C to 40°C
Humidity Ambient:	10% to 90% (<i>non-condensing</i>)
Max Wireless Interconnection:	20 Units
Transmitting & Receiving Distance:	Max. 80m (<i>Open space</i>) Max. 30m (<i>Indoor</i>)
Alarm Sound Level:	85 decibels at 3 metres
Recommended Spacing:	8.2m
Transmit & Receive Frequency:	868MHz
Approved by BSI to:	BS EN14604:2005



PAIRING THE SMOKE ALARM

On the first alarm

1. Attach the mounting plate to the alarm. (This is done by lining up the tab on the mounting plate with the arrow on the smoke alarm).
2. Turn clockwise to activate the battery.
3. Press the black button and hold for approximately 5 seconds. (LED will go RED for 30 seconds). Alarm is now in pairing mode.

On all additional alarms

1. Press the black button twice (LED with FLASH RED 5 times)
2. The alarms are now paired.

IMPORTANT
The wireless pairing button is only used for wireless interconnection.

INSTALLING THE SMOKE ALARM

- Attach the upper smoke alarm unit firmly to the mounting bracket.
- Place the mounting plate on the ceiling and use the screws to secure the mounting bracket.
- Having established the mounting location, ensure that there are no electrical wiring or pipe work in the area adjacent to the mounting surface.
- Take the mounting bracket and mark the mounting holes locations.
- Drill holes in the positions marked.
- Insert in the positions marked.
- Insert wall plugs into the drilled holes.
- Screw the mounting bracket to the mounting surface. **DO NOT OVER-TIGHTEN.**

Once the mounting plate is secured to the ceiling, line up the alarm with the mounting plate and twist clockwise to attach the mounting plate to the alarm. This should now be secured to the ceiling.

Lock position by giving a clockwise quarter turn. This clockwise turn can switch on the sealed in battery at the same time i.e, power on the device simultaneously.

Test the alarm for correct operation by holding the test button for 20 seconds once the alarm is integrated and installed.

TESTING YOUR SMOKE ALARM

Once the smoke alarm has been installed, a small indicator light (LED) positioned beside the test button should flash approximately once a minute in normal operation. If smoke is detected, the unit will emit a loud pulsating alarm until the air is clear.

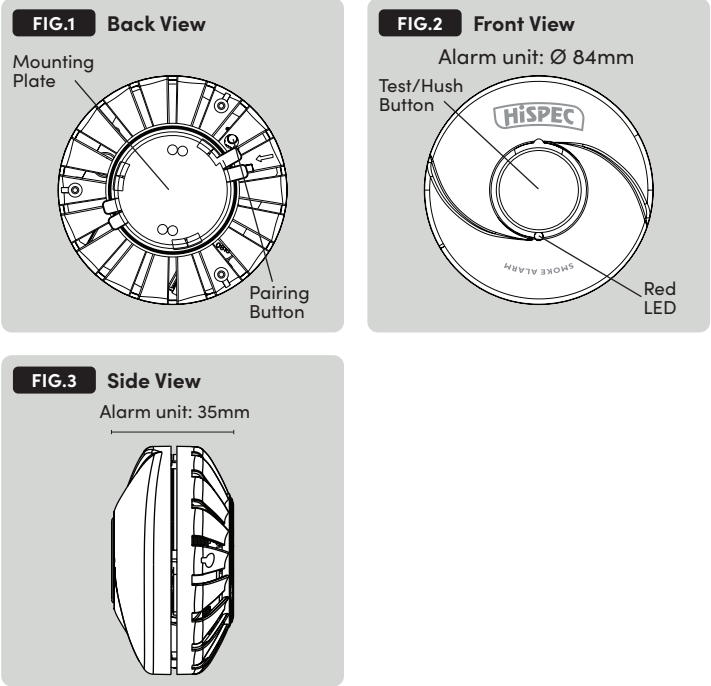
COMMON CAUSES AND AVOIDANCE OF FALSE ALARMS

The smoke alarm may be triggered by steam, condensation, normal smoke, or fumes. Small insects getting into the smoke alarm chamber may cause intermittent alarms. Keep away from the sources to avoid nuisance alarms. (*See “areas to be avoided” in the “positioning the smoke alarm” section*).

Hush or silence feature
This smoke alarm has a built-in hush or silence feature incorporated into the test button.

If cooking or other non-hazardous sources cause the alarm to sound, it can be temporarily silenced by pressing the test button and holding it for approximately 1 second. The alarm will enter a dormant period for 10 minutes. The red LED will flash every 10 seconds to indicate that the sensitivity is reduced. At the end of he hush period, the alarm will give two short beeps. The alarm will then reset to normal sensitivity.

DIAGRAM



LOCATING THE SMOKE ALARM

- If your dwelling is on a single story, 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 6**) for examples.
- If your dwelling is multi-story, 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 6**) for examples.

NOTE: For maximum protection an alarm should be fitted in every room (*Except the Kitchen, bathroom and garage*).

Ceiling Mounting
• As hot smoke rises and spreads, it is advisable to mount it 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 300mm from any light fittings or decorative objects that might obstruct smoke entering the alarm. Keep at least 300mm away from walls. See (**Figure 4**).

Wall Mounting
Do not mount tightly into the corners. Put the top edge of your alarm between 150 and 300mm below the ceiling. Keep at least 300mm from the corners. See (**Figure 4**).

On a Sloping Ceiling
• In areas with sloping or peaked ceilings, install your alarm in accordance with (**Figure 5**) because “dead air” at the apex may not allow smoke to adequately enter the alarm.

NOTE: If the smoke density increases during this period (i.e., from a fire), the unit will go into alarm mode.

LOW BATTERY WARNING

If the smoke detector emits a short “beep” once every 40 seconds, the battery is at the end of its life and this detector should be replaced immediately. This low voltage warning will be given for at least 30 days. If the red indicator light (LED) does not flash every 40 then replace the whole smoke alarm unit.

In this case, the other interconnected units in the system which are not in low battery condition, will chirps for a few seconds once an hour as long as the dectector with the “dead” battery beeps.

BATTERY SEALED-IN NOT FOR REPLACEMENT

ACTION IN THE EVENT OF A FALSE ALARM

- If there is a false, simply press the test/hush button on the cover to mute the unit for 10 minutes.
- Check the house carefully in case there is a small fire smouldering somewhere.
- Check whether there are some sources of smokeor fumes. You should get your family into a safe place before your investigation.
- Leave the building as quickly as possible. Check room doors for heat or smoke. Do not open a hot door. Use an alternate escape route. Crawl along the floor if possible through a wet cloth or hold your breath. DO not stop to collect anything.
- If there are frequent nuisance/false alarms, it may be necessary to relocate the device. If, for some reason, the alarm continues to give false alarms, clean the alarm unit. See section (*maintaining your smoke alarm*). If cleaning the alarm does not correct the problem, it can be returned to the place where you bought it.

IN THE EVENT OF FIRE

- Leave the building as quickly as possible. Check room doors for heat or smoke. Do not open a hot door. Use an alternate escape route. Crawl along the floor if possible through a wet cloth or hold your breath. Do not stop to collect anything
- Meet at a pre-arranged meeting place outside the dwelling and check everybody is there.
- Call the fire brigade from outside the building immediately. The brigade should be summoned regardless of the size of the fire and regardless of whether there is a facility for transmission of alarms to a remote manned centre.
- Do not go back inside a burning building and wait for the fire brigade to arrive.

MAINTAINING YOUR SMOKE ALARM

Clean your smoke alarm regularly to prevent dust buildup. This can be done using a vacuum cleaner with the brush attachment. Clean gently around the front grilled section and sides. Never use water, cleaners or solvents since they may damage the smoke alarm.

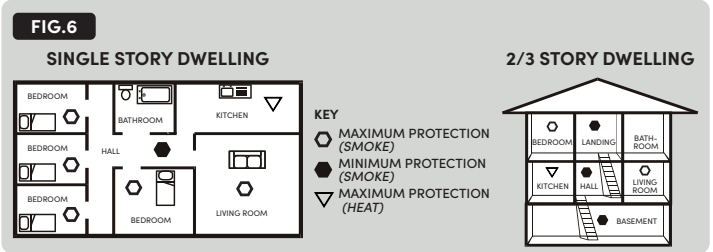
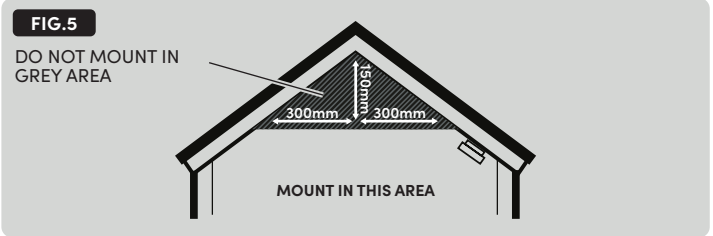
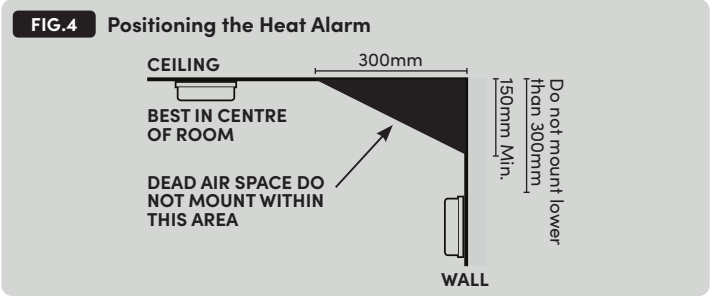
When the battery is low, replace it with a new smoke alarm.

If the alarm fails to operate properly, please return it to the wholesaler you purchased it from.

NOTE: The apparatus shall not be exposed to dripping or splashing.

PRE-WARNING FAULT SIGNAL (YELLOW LED)

When there is no fire or smoke accident, if the LED on the front cover light is on yellow, it means there may be dust inside or the unit cannot function properly. This is a pre-warning signal that the user should replace the unit with a new smoke alarm.



AREAS TO BE AVOIDED

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

IMPORTANT SAFEGUARDS

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

- Install the smoke alarm properly, following this instruction manual.
- Test your smoke alarm weekly.
- Replace with a new alarm immediately once depleted.
- Do not smoke in bed.
- Keep matches and 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. Reinforce this awareness periodically throughout the year.
- Make sure escape routes remain free of any obstructions.
- A warning that batteries (battery pack or batteries installed) shall not be exposed to excessive heat, such as sunshine, fire or the like.

WARNING!

IF THERE IS ANY QUESTION AS TO THE CAUSE OF AN ALARM, IT SHOULD BE ASSUMED THAT THE ALARM IS DUE TO AN ACTUAL FIRE AND THE DWELLING SHOULD BE EVACUATED IMMEDIATELY.

THIS PRODUCT IS A SEALED UNIT AND CANNOT BE REPAIRED - IF THE UNIT IS TAMPERED WITH, IT WILL INVALIDATE THE WARRANTY. IF THE UNIT IS FAULTY, PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

GUARANTEE

WARNING: DO NOT ATTEMPT TO OPEN THE HOUSING.

This alarm is in the warranty under normal use and service for a period of 5 years (including battery) from the 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 warranty period, it must be returned to where it was purchased, carefully packed 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 the alarm and in no case shall the company be liable for consequential loss or damages resulting from the failure of the alarm.

HISPEC Electrical Products Ltd., 104 Lower Baggot Street, Dublin, D02 Y940, Ireland 20 Technical Documentation Held by Manufacturer	HISPEC Electrical Products Ltd., Chorley North Business Park, Chorley, PR6 7BX 24 Technical Documentation Held by Manufacturer
BS EN14604:2005 + AC:2008 Smoke Alarm Devices: HSSA/PE/FF & HSSA/PE/RF	
Fire Safety	
Nominal activation conditions/ sensitivity, response delay (response time) and performance under fire condition	PASS Vibration resistance PASS Humidity resistance PASS Corrosion resistance PASS Electrical stability
Operational reliability	PASS
Tolerance to voltage supply	PASS
Response delay and temperature resistance	PASS

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 DEFECTIVE PRODUCT AT HISPEC ELECTRICAL PRODUCTS LTD. IN NO CIRCUMSTANCES WITHOUT EXCEPTION, SHALL HISPEC ELECTRICAL PRODUCTS LTD.’S LIABILITY, UNDER ANY OTHER REMEDY PRESCRIBED OR OTHERWISE BY LAW, EXCEED THE PURCHASE PRICE OF THE INDIVIDUAL ALARM. 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 regulations will encourage the recycling of Waste from Electrical and Electronic Equipment (European “WEEE Directive” effective August 2005).



Information regarding substances of very high concern (SVHC) according to the Regulation 1907/2006/EC (REACH)

This product contains Lead element, CAS Number: 7439-92-1

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