

red SMOKE ALARMS

10 YEAR LITHIUM BATTERY RF WIRELESS HEAT ALARM



MODEL: RHA10RF

Main Features :

- 10 year lithium battery
- Interconnection up to 40 heat/smoke alarms
- Sound level 85dB at 3m
- Alarm condition. Audible signal pattern (ISO 7731)
- No need to change the battery
- Fast and easy installation - no wiring required
- Tested and approved to AS1603.3:2018
- Connects with RHA240SL heat alarms when fitted with RHARFM Wireless Module
- Connects with R10RF smoke alarms
- Connects with RAC wireless wall controller
- Connects with R240 and R240RC smoke alarms when fitted with RWB Wireless Base

This instruction manual contains important information on the correct installation and operation of your heat alarm. Read this manual fully before attempting installation and retain for future reference.

SPECIFICATION

Power Source: 3V Lithium battery
 Transmit & Receive frequency: 433MHz
 Transmitting & receiving distance: max. 50metres (indoor)
 Wireless interconnection: 40 units
 Steady current: < 20uA
 Alarm current: < 50mA
 Temperature Alarm Level: 55-59°C
 Maximum Ambient: 40°C
 Recommended Spacing: 13.5m
 Maximum Distance from wall: 7.7m
 Alarm Sound Level: 85 Decibels at 3 metres (10 ft)
 Battery life: 10 years

LOCATING THE HEAT ALARM

Heat alarms are intended to be supplementary to Smoke Alarms and should only be placed in areas where smoke alarms cannot be used.

This heat alarm has a built-in wireless interconnection. It can transmit and receive with Red's smoke alarms and heat alarms. This Heat alarm gives a fire warning when the temperature at the unit reaches 55-59°C. It is ideal for kitchens, garages, cellars 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.

All the heat alarms and smoke alarms should be interconnected to ensure the early warning will be heard, particularly by somebody sleeping. A properly designed early warning fire system ensures an alarm is given to occupants of a dwelling before the escape routes become blocked with smoke. Therefore there must be Smoke Alarms along the escape routes as Heat Alarms would not give sufficient warning. However, a fire in a closed room (e.g. kitchen) adjoining the escape route, can eventually cause the corridor to become smoke-logged due to smoke leaking out from around the door before adequate warning can be given by detectors in the corridor. A heat Alarm in the closed room may give early warning of fire in that room.

If your dwelling is on a single storey, for minimum protection you should fit a Smoke Alarm in a corridor or hallway between the sleeping and living areas. 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 1 for examples.

If your dwelling is multi-storey, for minimum protection one Smoke 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 2 for examples.

NOTE: For maximum protection Smoke Alarms should be fitted in every room (except kitchen, bathroom and garage). heat alarms located in kitchens, garages, boiler rooms etc. within 5.3m (17ft) of potential fire sources.

DO NOT FIT THE HEAT ALARM IN THE BATHROOM, SHOWER ROOMS or other room where the unit may be triggered by steam or condensation.

FIGURE 1 – SINGLE STORE DWELLING

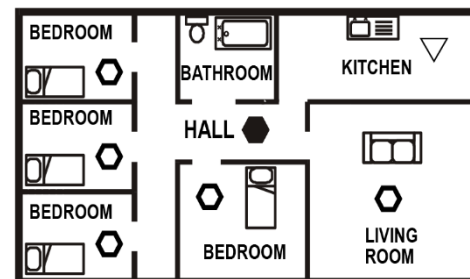
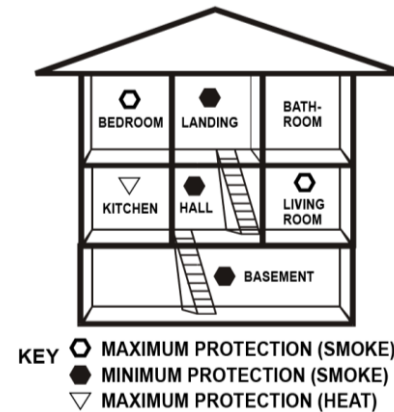


FIGURE 2 – 2/3 STOREY DWELLING



POSITIONING THE HEAT ALARM

Ceiling Mounting

As hot smoke rises and spreads quickly, it is advisable to mount the unit on the 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 light fittings or decorative objects which might obstruct smoke / heat entering the alarm. Keep at least 300mm away from walls. See Figure 3i.

Wall Mounting

Do not mount tight into the corners. Put the top edge of your heat alarm between 150 and 300mm below the ceiling. Keep at least 300mm from room corners. See Figure 3i (Wall mounting is not recommended for heat alarms)

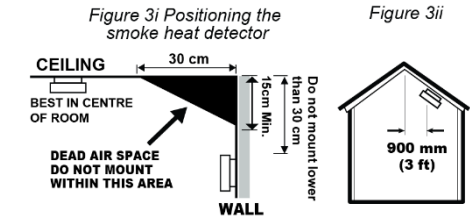
On a Sloping Ceiling

In areas with sloping or peaked ceilings install your heat alarm 900mm from the highest point measured horizontally because "dead air" at the apex may prevent smoke / heat from reaching the unit. See Figure 3ii.

Areas to be avoided include the following :-

- Situations where the temperature may fall below -10°C or rise above 40°C
- Humid areas such as bathrooms, kitchens, shower rooms where the relative humidity may exceed 90%
- Near a decorative object, door, light fitting, window molding etc., that may prevent smoke or heat 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 radiators or wall vents that can affect the direction of air currents.

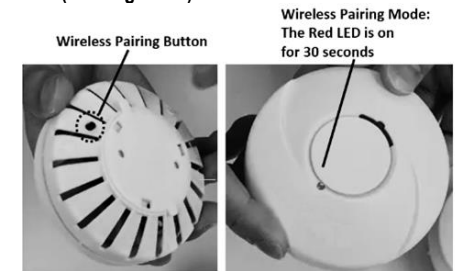
- In dusty or dirty environments such as workshops.
- Locate unit at least 1.5m away for fluorescent light fittings as electrical "noise" and/or flickering may affect the unit.
- Do not locate in insect infested areas. Insects and contamination of the Heat Alarm sensor can increase the possibility of false alarm.



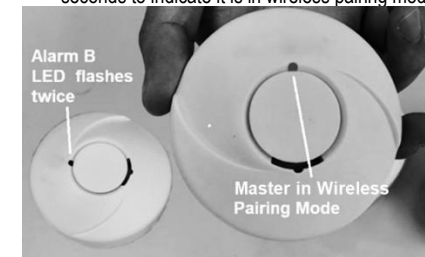
INSTALLING THE HEAT ALARM

This heat alarm is powered by battery and requires no additional wiring.

- **Wireless pairing the smoke or heat alarm (learning mode)**



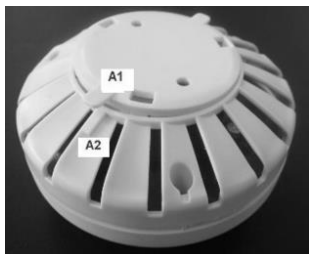
1. **Set one alarm as Master** - user press and hold Black button at the back of alarm (Test / Wireless Pairing button) for approx. 5 seconds (Master). The LED on the front of the alarm will illuminate for 30 seconds to indicate it is in wireless pairing mode.



2. **Connect other alarms devices to Master** – press black button other heat alarms (Alarm B) quickly two times. Red LED of Alarm B will flash 5 times to indicate successful wireless connection.
3. **Remove Master Alarm from Pairing Mode** - Press the Master Alarm's black button 2 times so master alarm will leave wireless pairing mode.

Assembling the Alarm Device to Ceiling

- Attach the upper alarm unit firmly into 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 is no electrical wiring or pipe work in the area adjacent to the mounting surface.
- Take the mounting bracket and mark the two mounting holes' locations.
- Drill holes in the positions marked.
- Insert wall plugs into the drilled holes.
- Screw mounting bracket to mounting surface. DO NOT OVER TIGHTEN.
- Assemble detector onto the mounting plate by aligning the two projections (A1) and (A2) on the mounting plate with the two keyhole slots in the detector.



Lock in 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 using test facility, once the alarm is integrated and installed.

OPERATING YOUR HEAT ALARM

Once the heat alarm has been installed a small indicator light (LED), positioned beside the test button, LED should flash approximately once a minute in normal operation.

If high temperature (60°C) has been detected, the unit will emit a loud pulsating alarm until the air is clear.

Once tuned on and working, the alarm will be in a working, passive mode. and circulate through a test cycle of room environment every 16 seconds. To manually test for operational functionality, the simplest way is to press the test button on top of the heat detector. It will continually transmit as long as the button is pressed.



Test & Hush Button

Press Button for test. The test and Hush Button is located on top of heat detector.

To test two units' transmission and reception performances/parameters, it is important to set up the wireless connection between the units. When one is at its receiving mode, it can receive a triggering signal from the transmitting unit within 16 seconds. As soon as the receiving unit gets the signal, it will

activate the alarm to sound loudly until the transmitting signal is vanished.

TESTING YOUR HEAT ALARM

It is recommended that you test your heat alarm once a week to ensure the detector is working correctly.

Push and hold the test button for approximately 3 seconds. A loud pulsating alarm should sound to indicate the correct function. During the alarm condition the indicator light will flash quickly.

After installation and after reoccupation of the dwelling following a vacation etc, check all your alarms.

LOW BATTERY WARNING

If the heat alarm 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 seconds then replace the whole heat alarm unit.

Note: the other interconnected units in the system which are NOT in low battery condition will also chirp, however only for a few seconds, once an hour, for as long as the detector with the "dead" battery beeps. The Heat alarm that chirps every 40 seconds is the only heat alarm that needs to be replaced.

BATTERY SEALED-IN NOT FOR MAINTAINING YOUR HEAT ALARM

Clean your heat alarm regularly to prevent dust build up. 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 heat alarm.

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

If the alarm fails to operate currently, please take back to place of purchase for replacement.

NOTE: THE APPARATUS MUST NOT BE EXPOSED TO ANY DRIPPING OR SPLASHING OF FLUID

IMPORTANT SAFEGUARDS

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

- Install the heat alarm properly, following this instruction manual
- Test your heat alarm weekly
- Replace the alarm immediately if battery is low
- 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, fire blankets 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 through-out the year.
- Make sure escape routes remain free of any obstructions.

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 GUARANTEE. IF THE UNIT IS FAULTY PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

LIMITATIONS OF THE HEAT ALARM

- Heat Alarms are not designed to be life saving devices against fire and smoke. In most fires, hazardous levels of toxic gases and smoke can build up before the Heat Alarm will operate. In cases where life safety is an issue, Heat Alarms should only be used to provide an added source of protection.
- Heat alarms cannot provide an alarm if heat does not reach the alarm. Therefore, Heat Alarms may not sense fires starting on the other side of a closed door or on a different floor. Smoke alarms should be installed in each sleeping area, on every level of a home and be interconnected with each other and the heat alarms.
- Home fires develop in different ways and are often unpredictable. No one type of alarm is always best, and a given alarm may not always provide warning of a fire.

YOUR HEAT ALARM GUARANTEE

These Heat Alarms are guaranteed to be free from defects in materials and workmanship under normal use and service for a period of ten years from date of manufacture. 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 occur after the date of purchase. The liability of the company arising from the sale of this Heat Alarm shall not in any case exceed the cost of replacement of Heat Alarm and in no case shall the company be liable for consequential loss or damages resulting from the failure of the Heat Alarm.

Interconnection to any other brand of heat or smoke alarm apart from RED, will void warranty on this product

RED SMOKE ALARMS PTY. 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 RED SMOKE ALARMS PTY. LTD OPTION. IN NO CASE SHALL RED SMOKE ALARMS PTY. LTD'S LIABILITY UNDER ANY OTHER REMEDY PRESCRIBED BY LAW EXCEED THE PURCHASE PRICE. YOUR HEAT 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 single occupancy private dwellings only and not intended for multi occupancy private dwellings or commercial or industrial dwellings.

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.

Red Smoke Alarms reserves the right to change specifications, modify designs and discontinue items without incurring obligation and whilst every effort is made to ensure that descriptions, specifications and other information in this catalogue are correct, no warranty is given in respect these of and the company shall not be liable for any error therein.

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