HEAT ALARM USER MANUAL

MODEL NUMBER: EP-HA-RF-10

Thank you for choosing Emerald Alarms.

This leaflet contains important information on the correct installation and operation of your heat alarm.

Please read all the information before commencing installation and retain for future reference.

This unit has been designed to meet the latest safety standards demanded in Australia and complies with the requirements of AS 1603.3:2018.

DIMENSIONS	Φ120 x 46.5mm
WEIGHT	128.7g
WARRANTY	10 years
MOUNTING OPTIONS	Ceiling mount only
POWER - BATTERY	10 year non-replaceable 3V lithium battery (CR17450)
INTERCONNECT	Built-in wireless radio frequency (RF) technology Connects with up to 40 Emerald RF enabled alarms
WIRELESS DISTANCE	>20m (100m outside)
SENSOR	Thermistor technology
SOUND PATTERN	ISO 8201
ALARM VOLUME	>85dB(A) @ 3m
ALARM SENSITIVITY	54°C to 65°C
HUSH/SILENCE TIME	approx. 8 minutes
NORMAL OPERATING & STORAGE TEMPERATURE	0°C to 40°C
NORMAL OPERATING & STORAGE HUMIDITY	<93% relative humidity (non-condensing)
PACK INCLUDES	Alarm, instruction manual, wall dog screws, and mounting plate

IMPORTANT

NOTE: Not suitable as a fire safety device unless interconnected to one or more smoke alarms.

WARNING: The battery in this unit is intended to last it's 10 year service life and cannot be replaced. It will 'chirp' every 54 seconds indicating a fault such as a low battery. Replace heat alarm immediately.

INSTALLATION LOCATIONS

1. Mount the heat alarm on the ceiling, preferably in the centre of the room.
2. Ensure the distance from the farthest wall, any room's door where a fire might start, and the next heat alarm is not more than 5.3 meters.

Note: Do not mount heat alarms on walls; they should only be ceiling mounted.
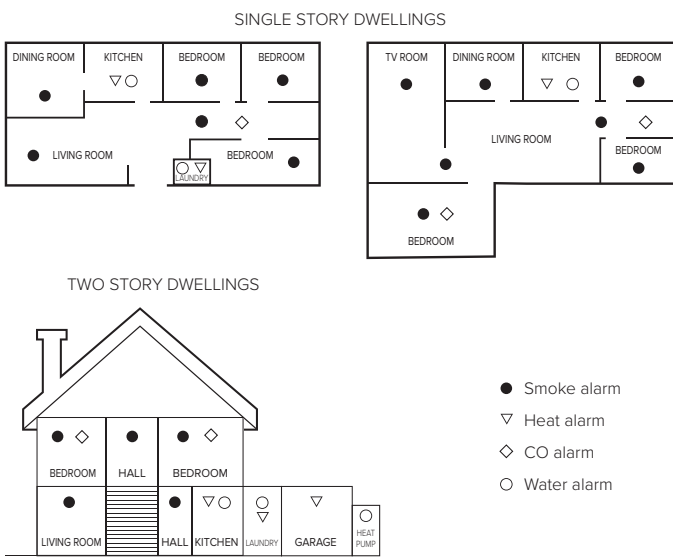

Important:

- For optimal protection, install enough heat alarms to compensate for closed doors and obstacles that might block the path of heat and sound.
- These heat alarms are primarily designed for single occupancy private dwellings. Seek the manufacturer's advice for other applications.
- For comprehensive fire protection, integrate heat alarms as part of a complete system that includes smoke alarms.
- Heat alarms are best suited for areas like boiler rooms, kitchens, laundry rooms, and garages, where dust, fumes, and moisture can cause nuisance alarms in smoke detectors.
- Avoid using heat alarms in escape routes; instead, use smoke alarms in these areas.
- Interlink heat alarms with smoke alarms whenever possible for better safety.
- Install smoke alarms in circulation areas forming part of escape routes and in every room of the home to enhance overall protection.

OPTIMAL ALARM PLACEMENT

For the highest level of protection, we strongly recommend installing multiple combination alarms in your home. Each alarm serves a specific purpose and adheres to certain rules and regulations.
To ensure proper installation, we advise following the state-based regulations and installation requirements.

The following graphs illustrate some best practices for alarm placement:

SINGLE STORY DWELLINGS

TWO STORY DWELLINGS

- ● Smoke alarm
- ▽ Heat alarm
- ◇ CO alarm
- ○ Water alarm

Note: These graphs are for illustrative purposes only and may not cover all potential scenarios. It is essential to assess your home's layout and potential risks to determine the most effective alarm placement.

LOCATIONS TO AVOID

DO NOT place heat alarms in the following locations:

1. In areas with turbulent air from fans, heaters, doors, or windows.
2. In high humidity areas like bathrooms or shower rooms, or where the temperature exceeds 39°C (100°F) or falls below 5°C (40°F).
3. At the peak of an 'A' frame ceiling, as dead air may prevent early detection of smoke and heat.
4. Less than 300mm (12 inches) from a wall when mounted on the ceiling.
5. In very dusty or dirty areas, as dirt and excessive dust can affect the alarm's performance.
6. Within 300mm (12 inches) of a light fitting or room corners.
7. In hazardous locations for routine testing or maintenance, like over a stairwell.
8. On poorly insulated ceilings.
9. Near objects such as ceiling decorations that might block the heat's path to the alarm.
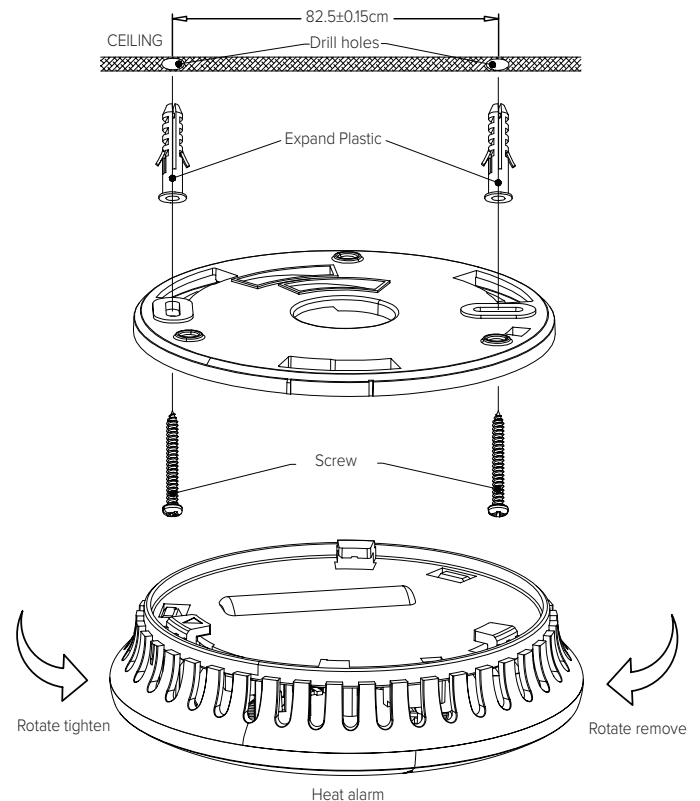10. Within 1.5m (5ft) of a fluorescent light fitting.

Keep your heat alarms in the right spots for reliable and effective fire detection!

ACTIVATION

Press and hold the test button for 3 seconds until the LED lights up, release the button within 2 seconds. You'll hear a "beep" sound, indicating the alarm is activated.

INSTALLATION

It is important to securely install the alarm on the ceiling as illustrated below:

Heat alarm

OPERATION AND TESTING

It is important to check heat alarms regularly to ensure they are operating correctly.

Regular Mode:

Under normal conditions, the red LED should flash once every 54 seconds, indicating that the alarm is active and functioning correctly.

Alarm Mode:

When the alarm detects high heat, the red LED will start flashing once per second and alarm will sound loudly. The flashing LED and alarm will continue until the detected temperature returns to normal levels.

Fault Mode:

If there is a fault in the alarm system, it will generate a chirp every 54 seconds without the LED flashing.

TESTING YOUR HEAT ALARM

It is recommended that you test your heat alarm once a month to ensure proper operation. Simply test by pressing and holding the test button on the cover. This action will trigger the alarm to sound, indicating that the electronic circuitry, alarm, and battery are in good working condition. If no alarm sounds, it could mean that the unit has defective batteries or other failures.

> **Warning:** Do not use an open flame to test the alarm, as it could damage the unit and pose a fire hazard.

LOW BATTERY POWER

The low battery warning will persist for at least 30 days, but failure to replace the alarm afterward may result in insufficient power to alert you in a real-life emergency. Your heat alarm relies on a fully operational battery to function effectively.

> **Important:** If the battery power is low, the unit will emit an audible chirp once every 54 seconds, accompanied by a single flash of the LED. In this case, it is crucial to replace the alarm immediately.

ALARM SILENCE (HUSH FEATURE)

Only use the alarm silence function after making sure that the source of heat buildup is identified, and the area is safe. This feature is only meant to be used when a safe condition is confirmed.

The hush feature will silence the alarm for 8 minutes with red LED flashing once every 8 seconds. However, the unit will sound the alarm again if there is a rapid rise in temperature during this period or the unit still detects a dangerous situation. After 8 minutes, the heat alarm will return to normal operation.

To activate the control, press and hold the test button for at least 2 seconds.

Interconnected Alarms:

If you have interconnected alarms installed, they will all keep sounding as long as there's a dangerous situation or until you press the test button on the first alarm that triggered the alert. If the alarm keeps sounding and doesn't stop, it means the area's heat might be too high, and there could be a dangerous situation. In such cases, take immediate emergency action.

WIRELESS INTERCONNECTING FUNCTION

For the best results we advise you first choose the central alarm and then connect other alarms to your central alarm.
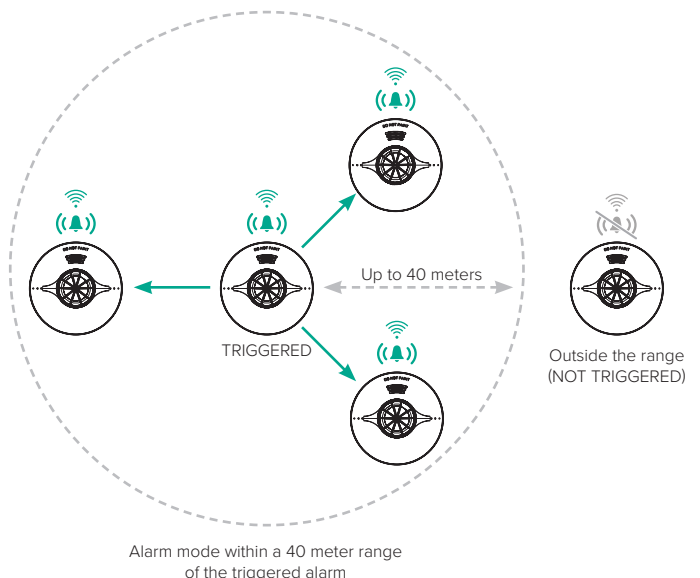
SETTING UP WIRELESS CONNECTION:

1. Ensure all the alarms are activated.
2. Choose one alarm to be the central connection point for others.
3. On the central alarm, press the TEST button three times within two seconds. The red LED will flash quickly, indicating it's in 'pairing mode' for 90 seconds. To exit the pairing mode press the button once.
4. While the central alarm is in pairing mode, press the TEST button three times within two seconds on the other alarms. They will interface with the central alarm. Pairing is successful when you hear a beep and see one light flash.
5. Repeat steps 3 and 4 for other alarms.

DEACTIVATING WIRELESS CONNECTION:

1. Press the TEST button on any alarm three times within 2 seconds. The red LED will flash quickly.
2. Press and hold the TEST button again until the red LED goes out (first time) and then release the button immediately. The red LED will flash slowly.
3. Press the test button again, and the alarm will beep 3 times, confirming the wireless connection has been successfully cleared.

> **Important:**
> 1. Alarms must be activated for wireless connectivity.
> 2. One alarm can connect to a maximum of 40 other alarms wirelessly.
> 3. Our alarms cannot communicate with other manufacturers' alarms.
> 4. In a network of interconnected alarms within a 40-meter range, any detected emergency triggers all connected alarms simultaneously. The alarm need to be wirelessly connected for all connected alarms to trigger.

Up to 40 meters

TRIGGERED

Outside the range
(NOT TRIGGERED)

Alarm mode within a 40 meter range
of the triggered alarm

ALARM MEMORY FUNCTION

The heat alarm will remember if it has been triggered for a period of 48 hours. The red LED indicator flashes 3 times every 54 seconds during that period.

If heat alarm has been turned off during this 48-hour period, it will delete this history.

HOW TO DEACTIVATE THE HEAT ALARM

Press the test button six times within three seconds, the alarm will chirp once indicating the product has been deactivated. There will be no alarm functions while in this status. You must reactivate the alarm before use.

> **Warning:** Deactivating this alarm should only be performed if you need to dispose of the heat alarm or if you need to cease a nuisance alarm which is caused by a failure of the heat alarm.

ROUTINE MAINTENANCE

Like other electrical accessories in the home, heat alarms require maintenance to ensure efficient and effective operation.

Proper maintenance can also reduce the likelihood of false alarms.

1. In addition to monthly testing, the alarm requires regular cleaning to remove dust, dirt, or debris.

2. Using a vacuum cleaner with the soft brush vacuum all sides and cover of the heat alarm device.

> **Note:** Do not attempt to remove the cover to clean inside. This will affect warranty.

TROUBLESHOOTING

DESCRIPTION	POSSIBLE CAUSES
Heat alarm does not sound when tested. NOTE: Push and hold test button for at least five (5) seconds while testing!	1. Must activate alarm before installation. 2. If there are still failures during warranty, you can return to your retailer. 3. If the unit is out of warranty, please replace another new alarm.
The alarm "chirp" with red LED flashes once every 54 seconds.	The battery is under low battery status, please replace the heat alarm device.
Heat alarm sounds unwanted alarms.	Hire an electrician to move heat alarm to a new location. See the **Installation Locations for alarms** section of this user guide.

WARRANTY INFORMATION

Emerald Alarms Pty Ltd warrants this heat alarm to the original purchaser.

Emerald Alarms Pty Ltd warrants this heat alarm is free from defects in material and workmanship under normal use and service for a period of 7 years from the date of purchase.

This warranty does not cover damage resulting from accident, misuse or abuse or lack of reasonable care of the product.

In no case shall Emerald Alarms Pty Ltd be liable for any incidental or consequential damages for breach of this or any other warranty express or implied whatsoever. Faulty product can be mailed to the following address with a detailed explanation of problem.

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