# FIREwave®

# RHT-E

## WIRELESS CLASS P HEAT DETECTOR

## Features

▸ Twin alarm LEDs for 360 deg visibility
▸ Internal algorithm processing optimises performance
▸ 3rd party approved
▸ Up to 10 year battery life
▸ Utilises standard low cost lithium battery technology
▸ Bi-directional wireless communications
▸ Compatible with all FIREwave Translators and Expanders
▸ Multiple sensitivity settings
▸ 5 year product warranty
▸ Device indentification tab.

## Description

The RHT-E is the latest in wireless heat detector technology. It is a fully intelligent device and compatible with FIREwave wireless Translator and Expander modules. The detector is designed for open area protection giving the best possible warning of a fire condition in locations where smoke detection technology is not suitable.

The well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.

*For BASE COMPATIBILTY see next page

## Specification

| | |
|---|---|
| Operating frequency range | 868 – 870 MHz |
| Max. radiated power | 14dBm (25mW) |
| Operating channels | Multiple |
| Class A1R | (58ºC max) or |
| Class BS high temp | (78ºC) |
| Dimensions | 110mm x 70mm |
| Batteries | 2 x CR123A |
| Weight | 190g |
| Temperature Range (no icing) | -10ºC to +55ºC ** |
| Max tolerated humidity (non condensing) | 95% RH |
| IP Rating | 40 |

**Performance may vary at extremes of range

## Standards & Approvals

BS EN 54-5 Class P: Heat Detectors. Point Detectors

BS EN54-25: Components using radio links

CE 0832

LPCB 928j



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## LED Indication

The device is equipped with 2 tri-colour LEDs (red/green/amber) that provide visual indication for functional conditions and battery levels as indicated in the sections below:

| Operational Status Indications | | | |
|---|---|---|---|
| **Status** | Amber LED | Green LED | Red LED |
| **Power Up** | - | 1 Second On then | 4 x 0.5 Seconds On |
| **Linking to System** | - | Blinking until link is complete | - |
| **Link Procedure has Failed** | - | - | Continuous |
| **Normal condition** | - | - | - |
| **Alarm condition** | - | - | 0.5 Second On & 0.5 Second Off |
| **Main battery fault** | 0.1 Second On & 5 Seconds Off | - | - |
| **Secondary battery fault** | - | 0.1 Second On & 5 Seconds Off | - |
| **Both batteries fault** | 0.1 Second On & 5 Seconds Off | 0.1 Second On & 5 Seconds Off | - |
| **Other Fault** | Sequential bi-colour flashing | | - |
| **Tamper** | - | - | - |
| **Loss of radio link with Translator/ Expander** | - | - | - |

## Communication Quality Assesment

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

| Communication Quality (db) | Level | Green LED | Red LED |
|---|---|---|---|
| **No connection** | Fail | - | Two flashes |
| **Link margin is less than 10 dB** | Poor - not acceptable | - | One flash |
| **Communication with link margin from 10 dB to 20 dB** | Medium/Low - not recommended | One flash | - |
| **Communication with link margin from 20 dB to 30 dB** | Good | Two flashes | - |
| **Robust communication with link margin over 30 dB** | Excellent | Two flashes | - |

Note: The "program" switch must be returned to the 1 position for normal device operation

## Base Compatibility

This device is supplied with a standard base and is compatible with the following base sounders:

- HFW-BS-05       Wireless Base Sounder
- HFW-BSB-05       Wireless Base Sounder Beacon (VID)

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