FIREwave®

Intelligent, wireless fire detection.

HOCHIKI

World Class Leaders in Fire Detection Since 1918

Your Safety, Our Technology

FUNDAMENTALS

FIREwave is a wireless based family of products which is fully integrated into Hochiki's renowned ESP intelligent hardwired system. This seamless integration provides the user with maximum flexibility in configuring the system to meet the specific needs of the building into which it is to be deployed.

FIREwave employs the latest technology, providing a simple and economic wireless fire detection system installation with minimal disruption to the fabric of the building and its operation. Flexible and versatile, **FIREwave** is suited to a wide range of applications, matching the requirements of any building from busy hotels to sensitive heritage buildings.

FIREwave is the most flexible fire detection solution available that is simple to install and maintain, overcoming installation and maintenance challenges on the most demanding sites; advanced patented technology is used to achieve optimum performance.

OPERATION

Through patented and proven wireless technology, **FIREwave** is built around intelligent Translator and Expander Modules and the advanced wireless communication protocol facilitates the delivery of fully intelligent field device integration, allowing analogue values, device addresses and type codes to be transmitted to the system control panel.

Powered directly from the detection loop, Translator Modules ensure a reliable and secure connection between the field devices and control equipment. Each Translator Module can support up to 32 field devices via the proven wireless protocol.

Communication between the Translator Module and devices is bi-directional and uses the 868MHz frequency range. Automatic system adjustments, including channel hopping and signal amplification, are implemented to support the security and stability of communications.

FLEXIBILITY & ADAPTABILITY

FIREwave sensors are supplied in three variants: Optical, Thermal and Multi Criteria, which cover a wide range of applications. The Optical and Multi Criteria detectors feature double dust traps and adaptive signal processing to prevent false alarms. Thermal detectors can respond to a fixed temperature threshold, or detect a rate of rise in temperature.

The range of **FIREwave** devices provides a visually attractive wireless fire detection solution, encompassing a wide variety of installation types and sizes. Wall and base mounted audio and audio-visual devices have adjustable volume levels and multiple tone settings, and are available as stand-alone Sounders and Beacons, or as combined units. Wall mounted units can be supplied in red or white, and weatherproof options are also available.

Each field device has a range of 150m in open air, but greater distances and complex architecture can be addressed with Expander and Router Modules to boost the signals transmitted, allowing **FIREwave** systems to be configured to any size and complexity.

All **FIREwave** devices are powered by standard lithium batteries which are both economical and environmentally friendly. Dependant on design and device type a battery life of up to five years can be anticipated from the primary cell, with a further two months of operation from the support cell.

Once installed, the design of our products ensures simple on-site maintenance. The lifespan of these products can be maximised using Hochiki's Maintenance and Service facility, where products returned are dismantled, cleaned and re-calibrated to effect continued operation for many years.

In addition, Hochiki's dedicated team of technicians provides support to customers, and ensures that installation and maintenance processes remain transparent, effortless and focused on customers' requirements.

All **FIREwave** batteries are monitored continually, and any low battery condition is automatically displayed at the control equipment.

KEY FEATURES & BENEFITS

- Advanced, patented wireless technology ensures optimum system performance

- Expandable: configurable to any size and complexity of building

- Simple to install: fast deployment, with minimal disturbance

- Flexible and versatile: suits all building types

- Manufactured to the latest British and European] standards

QUALITY & RELIABILITY

The highest levels of reliability and performance are achieved with advanced and patented technologies, and FIREwave has been designed and manufactured to the latest British and European Standards. In addition, the system has been independently tested and approved by the LPCB and reaches the highest level of quality and reliability.

COST CONSIDERATIONS

Project management can prove costly, and specialist wiring installations require skilled engineers and considerable disruption during installation, leading to increased labour costs and limiting access for extended periods. FIREwave is quick to install and requires minimal preparation in advance of system installation. This leads to a very economical installation when compared with traditional hardwired devices.
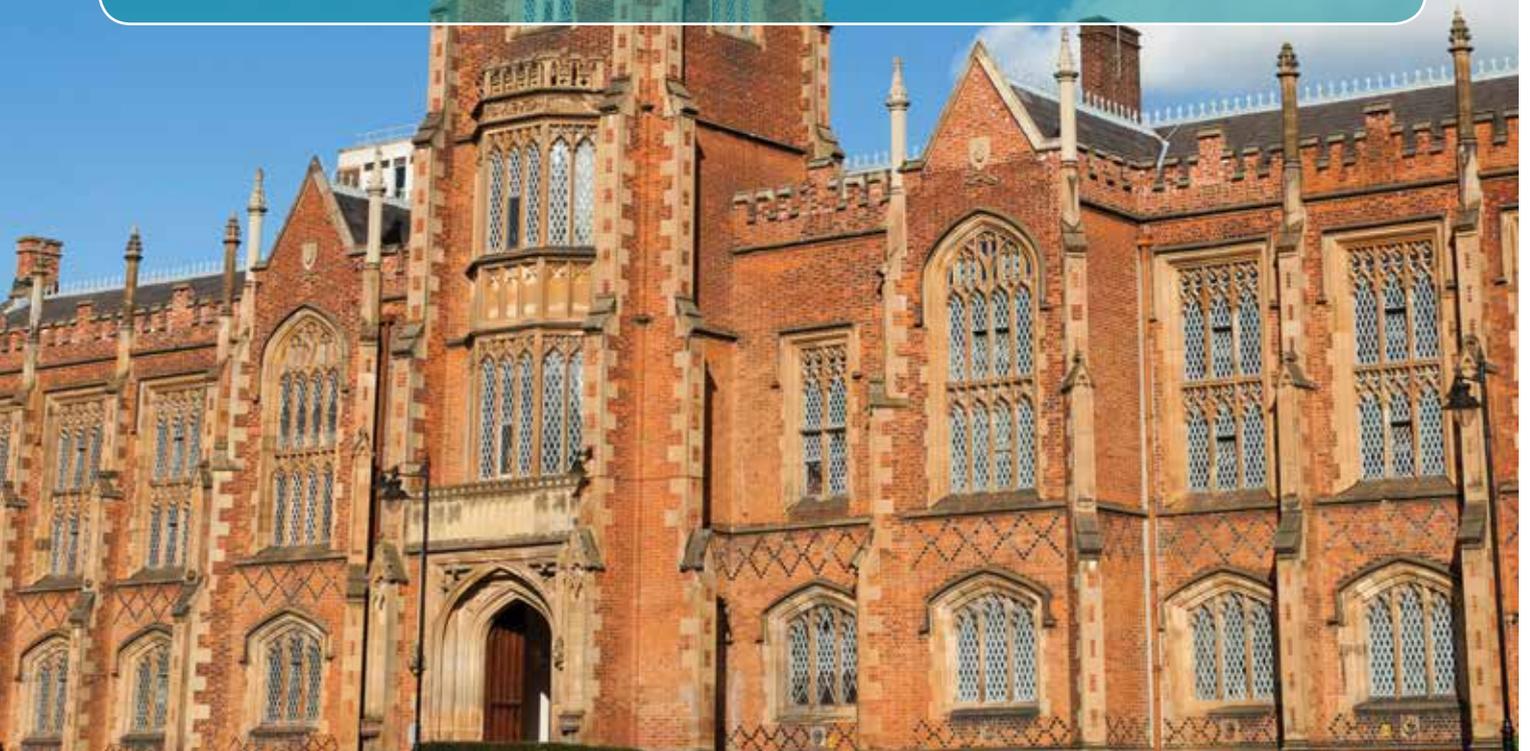
ROD-E
Photoelectric Smoke Sensor

RHD-E
Heat Sensor

RMD-E
Multi-Sensor

ROD-E on RSM-BSB
Base Sounder Beacon
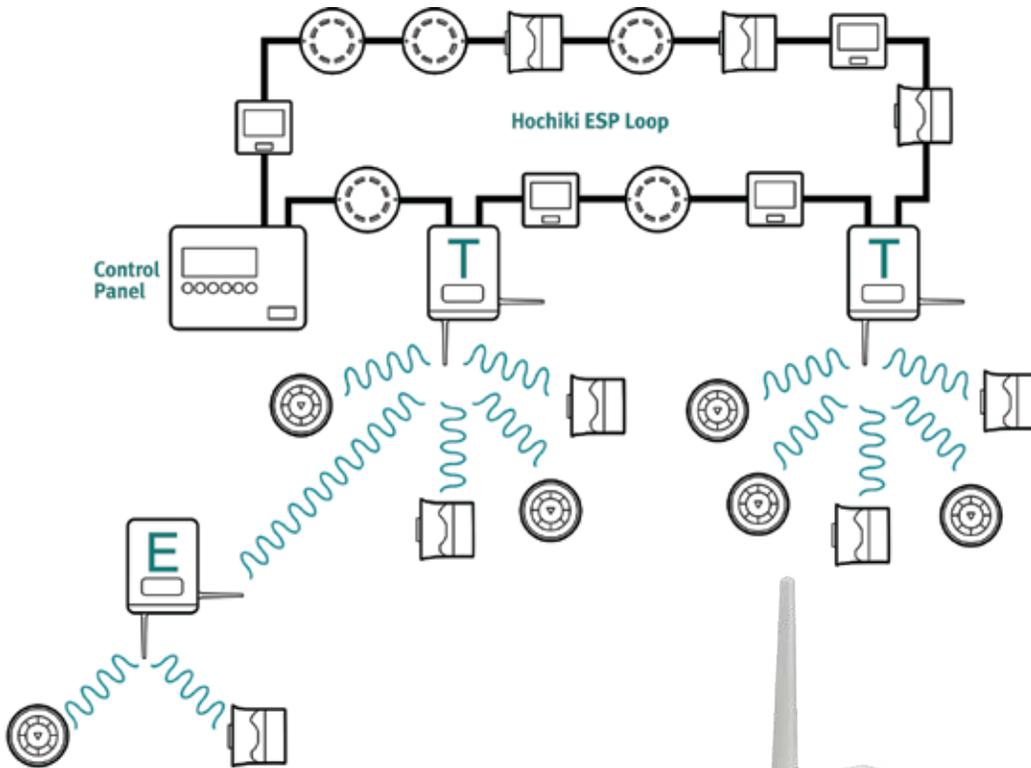
RSM-WS/W(RED)
Weatherproof Wall Sounder

TRAINING AND SUPPORT

To increase client confidence and reduce the need for return site visits, full training and support is available from the team of experts at Hochiki Europe throughout all stages of the project, ensuring optimal results and the successful delivery of the FIREwave system.

SYSTEM ARCHITECTURE

Hochiki ESP Loop

Control Panel

The RSM-WTM Translator Module (T) is fitted to the analogue addressable fire system loop. It then provides an interface between the loop and the wireless devices. The module is fully powered by the loop and full control and monitoring of the wireless devices is possible through the control panel.

The RSM-EXP Expander Module (E) allows the wireless system to provide greater coverage by receiving and re-transmitting the boosted wireless signal.

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