



ekho

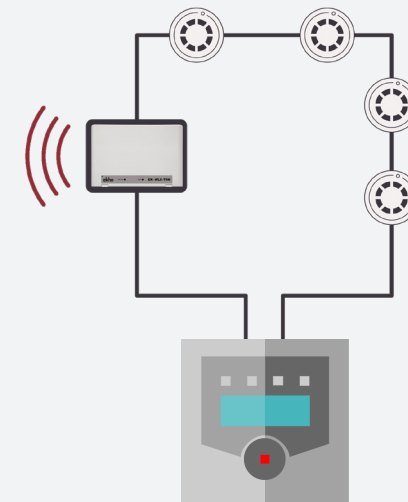
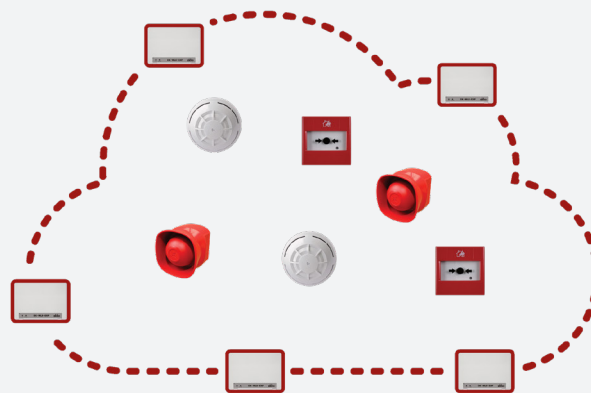
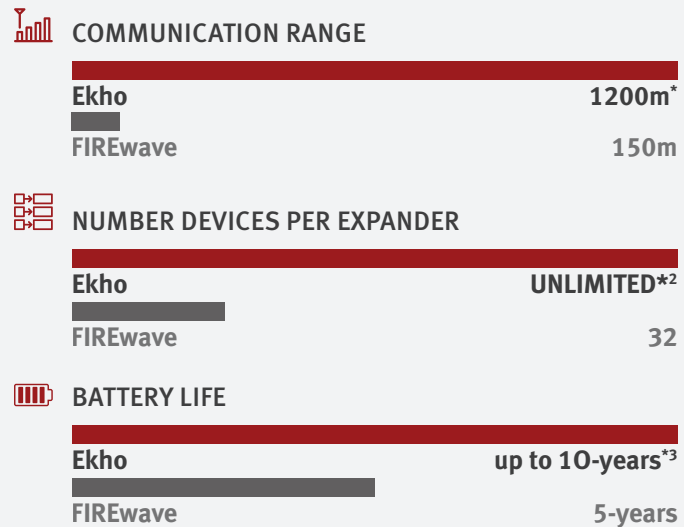
RANGEOVERVIEW
Hybrid Wireless Fire Detection System

EKHO - A NEW GENERATION OF HYBRID WIRELESS FIRE DETECTION

Ekho is a wireless based family of products which can be fully integrated into Hochiki's renowned ESP intelligent hardwired system.

At the core of the system is the wireless Translator module. It is hard-wired to the fire alarm control panel loop and communicates continuously with the wireless devices. Wireless Expander modules are used to extend the radio mesh network, increasing the reach and capacity of the overall system.

Ekho is the next generation of hybrid wireless fire detection from Hochiki and supersedes the FIREwave system in a number of ways:



*In open air *2within the 126 device capacity of associated Translator *3Dependent on operational usage

COMPANY OVERVIEW

Established in Japan in 1918, Hochiki is a wholly independent, multinational, publicly listed group of companies with over 2000 employees working across six manufacturing plants, 38 sales offices and 14 subsidiaries.

One of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions, Hochiki has acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's facilities in Japan, the United States of America and Europe design and manufacture products and provide technical support suited to local standards and customer requirements.

Total commitment to meeting the needs of individual national markets has reinforced the company's global reputation, resulting in Hochiki products being installed in many prestigious sites and in over 80 countries worldwide.



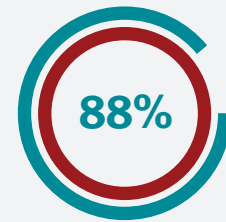
STATISTICS TAKEN FROM THE HOCHIKI CUSTOMER SERVICE SURVEY



Respondents rated product quality as either 'very good' or 'excellent'



Customers stated our market reputation is 'very good' or 'excellent'



Customers are most likely to recommend our products



KEY FEATURES & BENEFITS

ADVANCED

Patented MESH 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

MEETING THE STANDARDS

Manufactured to the latest standards

QUALITY & RELIABILITY

The system has been independently tested and approved by the LPCB and RED (EU Standard) reaching 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. Ekho 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.

FLEXIBILITY & ADAPTABILITY

Ekho 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 Ekho devices provides a visually attractive wireless fire detection solution, encompassing a wide variety of installation types and sizes.

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.



SELF-CONFIGURING MESH NETWORK

The Ekho Expander modules create a self-configuring mesh network, which constantly relays field device signals back to the Translator module.

- ▶ Each wireless device determines which Expander has the strongest signal path and automatically connects to it
- ▶ The Expander mesh network guarantees an “always on” connection between the wireless devices and the Translator/fire control panel.

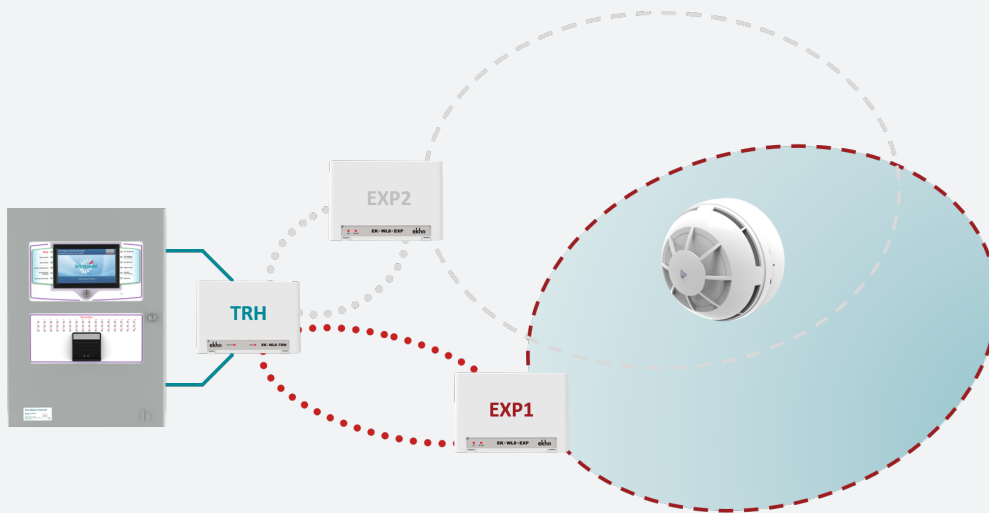
Self-healing mesh technology provides

- ▶ High level of reliability
- ▶ Automatically adapting to changing operating conditions: all devices automatically choose a parent expander depending on the quality of connection
- ▶ A simple design and commissioning process.

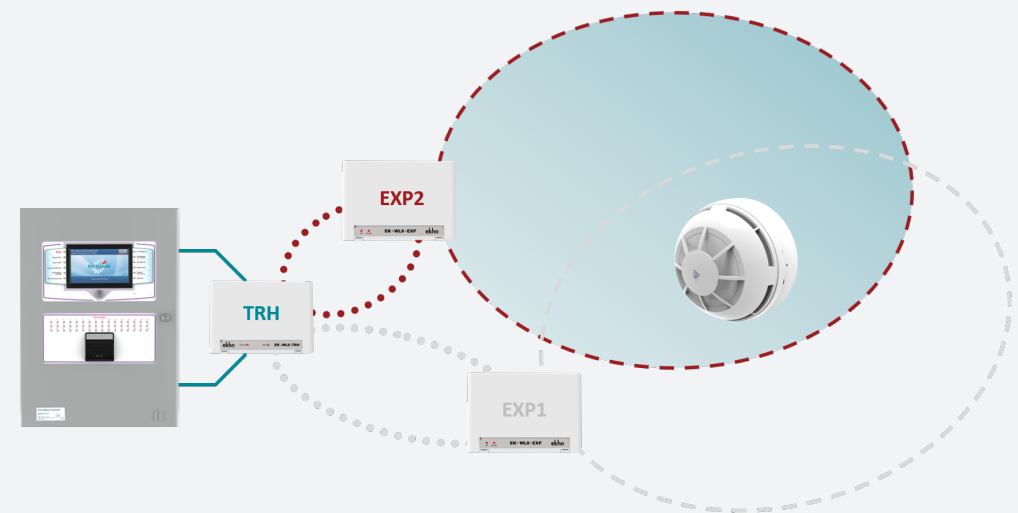
Advantages for installers

- ▶ Simplified design and planning process
- ▶ Faster commissioning process
- ▶ Less time on site.

The Ekho system can be designed, programmed and commissioned from the free “Ekho Configurator” software before visiting the site, saving on installation time.



In this example, the Ekho sensor is connected to the Translator via Expander 1, as it is the strongest signal pathway.



If the signal to Expander 1 is compromised, the sensor automatically finds and connects to an Expander with the next strongest signal pathway, in this example, Expander 2.

ekho NO WIRES. NO LIMITS.

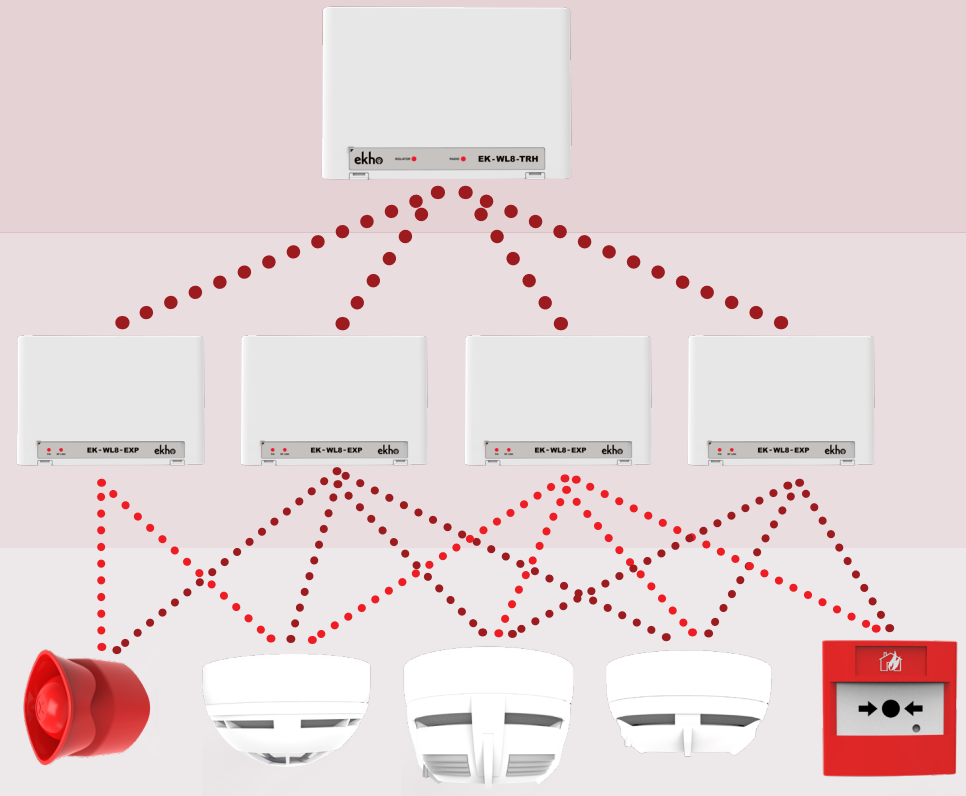
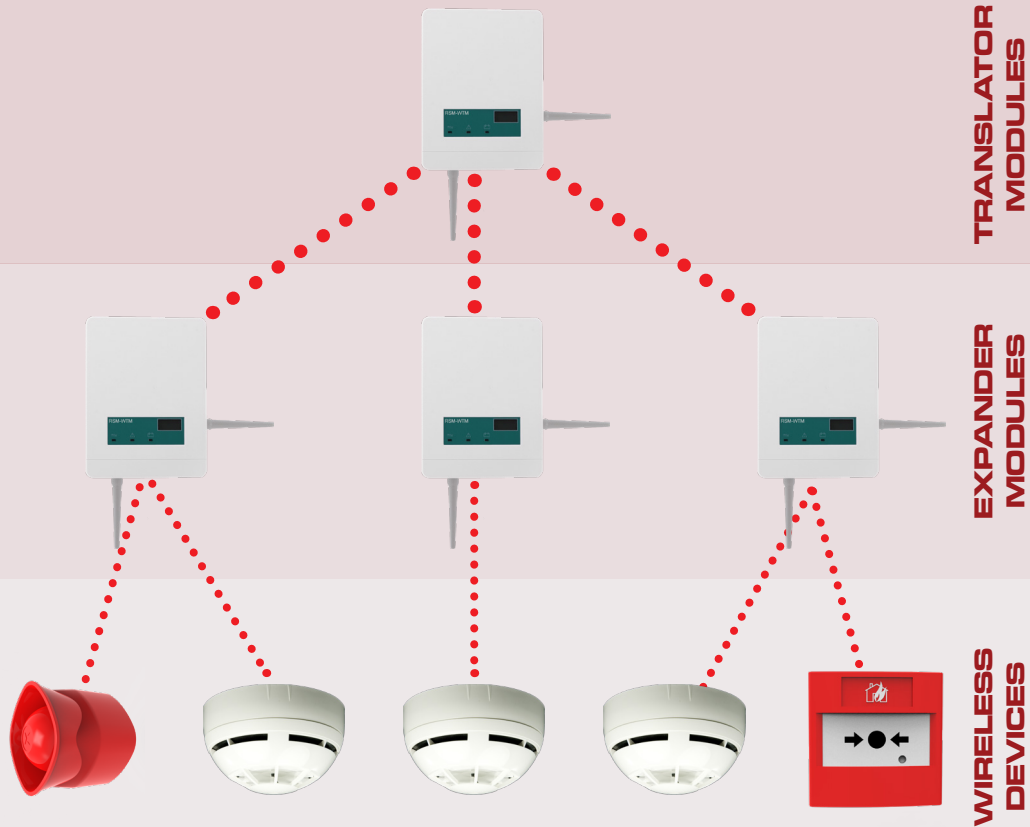
SELF-CONFIGURING MESH NETWORK

Linear Networking

Each device pre-programmed onto specific Expander

Mesh Networking

Each device can choose which Expander to connect to, depending on signal path strength



EK-WL8-TRH

Hybrid Wireless Translator Module



EK-WL8-EXP

Hybrid Wireless Expander Module



EK-WL8-SK

Hybrid Wireless Survey Test Kit



EK-WL8-O

Hybrid Wireless Optical Sensor



EK-WL8-OH

Hybrid Wireless Multi Sensor



EK-WL8-IN

Hybrid Wireless Input Module



EK-WL8-OUT

Hybrid Wireless Output Module



EK-WL8-H

Hybrid Wireless Heat Sensor



EK-WL8-OV

Hybrid Wireless Optical Sensor with Built-in Voice Alarm and VAD



EK-WL8-SND

Hybrid Wireless Sounder



EK-WL8-CP

Hybrid Wireless Manual Call Point



10-2210WSR-S

Auxiliary Relay Unit



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 throughout all stages of the project, ensuring optimal results and the successful delivery of the Ekho system.

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Fire Industry Association



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Your Safety, Our Technology