HOCHIKI®

World Class Leaders in Fire Detection Since 1918

FIREscape+

RANGEOVERVIEW

Integrated Emergency Lighting & Fire Detection System

GLOBALLY PROVEN PRODUCT DESIGN

The **FIREscape+** system is the first of its type and integrates Hochiki's highly successful **FIREscape** emergency lighting system with its acclaimed **ESP** fire detection system. By integrating both of these systems onto the same panel and onto the same loop wiring, not only does the emergency lighting become operational in the event of a fire – without the need for a mains supply failure to have occurred - but based on the location of the fire, people are directed away from unsafe exit routes using Hochiki's intelligent signage.

This is achieved by creating dual function exit signs. Under normal circumstances the exit sign is illuminated and carries the internationally recognised symbols of a running man, door and direction arrow. However, in the event of a fire affecting a specific escape route, the appropriate signage is switched off and replaced by an illuminated RED "X" symbol.

Example -

Unlike other systems, where each luminaire requires a 230 V supply, the entire **FIREscape+** system operates at extra low voltage. Utilising only Extra Low voltage devices, means that the luminaires are fitted to the same style of plug-in base as the fire detectors, which allows installation and maintenance to be carried out by engineers other than qualified electricians, thereby producing a very cost effective solution.

INTELLIGENT SYSTEM

FIREscape+ is an intelligent system. All of the devices – fire sensors, sounders and beacons, emergency luminaires and exit signs - are individually addressed and fully monitored by the system control panel. By automatically monitoring all of the key elements of each device the need for regular inspection is significantly reduced*. The failure of any device is immediately registered on the main control panel with both audible and visual warnings.

ENERGY EFFICIENCY & GREEN VALUES

FIREscape+ incorporates LED technology and Lithium Polymer batteries into all emergency luminaires and signs. When compared with traditional fluorescent light technology, energy and CO_2e emission savings in excess of 95% are achievable.

*Note: Local or national standards may still require a regular testing and inspection scheme.

COMPANY OVERVIEW

Established in Japan in 1918, Hochiki is an independent, multi-national, publicly listed company with over 1700 employees across the globe. 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 DECEMBER 2016

91%

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

92%

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

88%

Customers are most likely to recommend our products

FIREscape+
KEY FEATURES & BENEFITS

ONE CONTROL PANEL
To create a combined emergency lighting and fire detection system, only the one control panel and operator interface is required.

SAFETY GUIDANCE
During an emergency, people are provided with directional guidance to help find their escape route quicker and return to safety.

COST EFFICIENT
Cost efficiency throughout the entire product life cycle – from installation to operation, maintenance and recycling

INHERENT RELIABILITY
Minimum of 10 years system life expectancy (battery life expectancy is at least 5 years).

QUALITY & RELIABILITY
The FIREscape+ system complies with all British and European emergency lighting standards, in particular BS5266 for the design and installation of emergency lighting systems.

ENVIRONMENTALLY FRIENDLY
All of the Hochiki components are environmentally friendly, including – batteries, plastics and electronics are fully recyclable

FALSE ALARM REDUCTION
With the Hochiki ESP protocol, there is a significant reduction in the potentional for false or unwanted alarms.

NO MAINS SUPPLY REQUIRED
In this combined system none of the devices, including luminaires and exit signs require mains supply.

AUTOMATIC TESTING
All of the emergency luminaires and exit signs have automatic testing functionalities.

REDUCED COST OF OWNERSHIP
There are lower installation costs by integrating fire detection and emergency lighting onto the same cable, a 40% reduction in installation costs is achievable when compared to the installation of two independent systems. Additionaly, less visits from engineers are required as maintenance can be conducted on the one system as a whole. As there is one common central control panel and a series of common field equipment, there are significantly less products required to service. This both reduces costs and minimises the downtime potential should a failure occur. Finally, the system can achieve a longer operating life as LEDs have a typical operational life expectancy of 10 years, compared to 9 months for an 8W fluorescent lamp (in maintained mode).

FALSE ALARM MANAGEMENT

False activation of a fire alarm system is both disruptive and expensive. Hochiki's Intelligent products and ESP digital communications protocol employ advanced techniques to minimise the potential for false or unwanted alarms.

Drift Compensation - A smoke sensor's performance will vary over time due to gradual contamination by the environment, leading to over-sensitivity and unwanted alarms, or to over-contamination and failure to respond to smoke. To prevent degradation, the Hochiki ESP Intelligent system automatically recalibrates all sensors once every 24 hours to ensure optimum performance is maintained.

Alarm Verification - Using a time delay integration algorithm, the existence of smoke or heat over the programmed period is confirmed, eliminating unwanted activations from transients. Individual sensors can be programmed according to specific conditions which is ideal for applications such as hotel rooms and kitchens.

Variable Sensitivity - Smoke and heat sensors are installed in a wide variety of environments, from clean rooms and computer suites to public areas. The sensitivity of each ESP sensor can be individually adjusted to match the expected risk, either permanently or under a timed day and night operation.
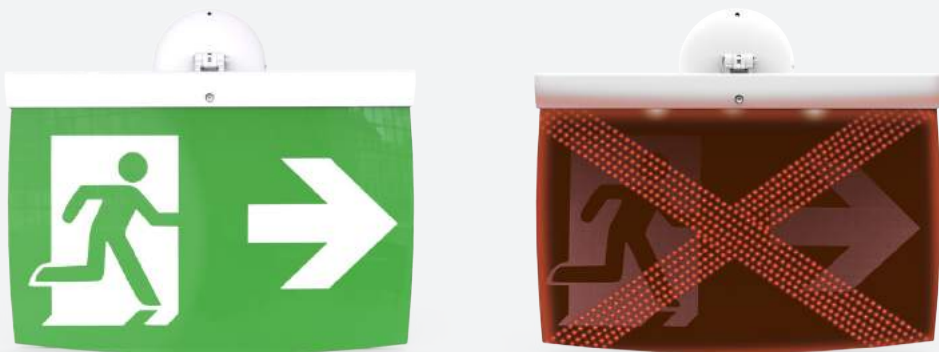
TRAINING AND SUPPORT

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 FIREscape system.

Standalone Fire Detection System + **Standalone Emergency Lighting System**

New Combined FIRE & EMERGENCY LIGHTING SYSTEM

one loop

ONE loop, ONE control panel certified and approved to EN54 and BS 5266 part 1

(Expandable up to 4 loops with additional cards and networkable)

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9-5-0-563/ISS3/OCT17

Quality Systems Certificate
No. 164
Assessed to ISO 9001

Environmental Management
Certificate No. EMS 286
Assessed to ISO 14001

Business Member

Affiliate Member

KM 653255
BS EN60598-1:2015
BS EN 60598-2-22:2014
Emergency Luminaires

Your Safety, Our Technology