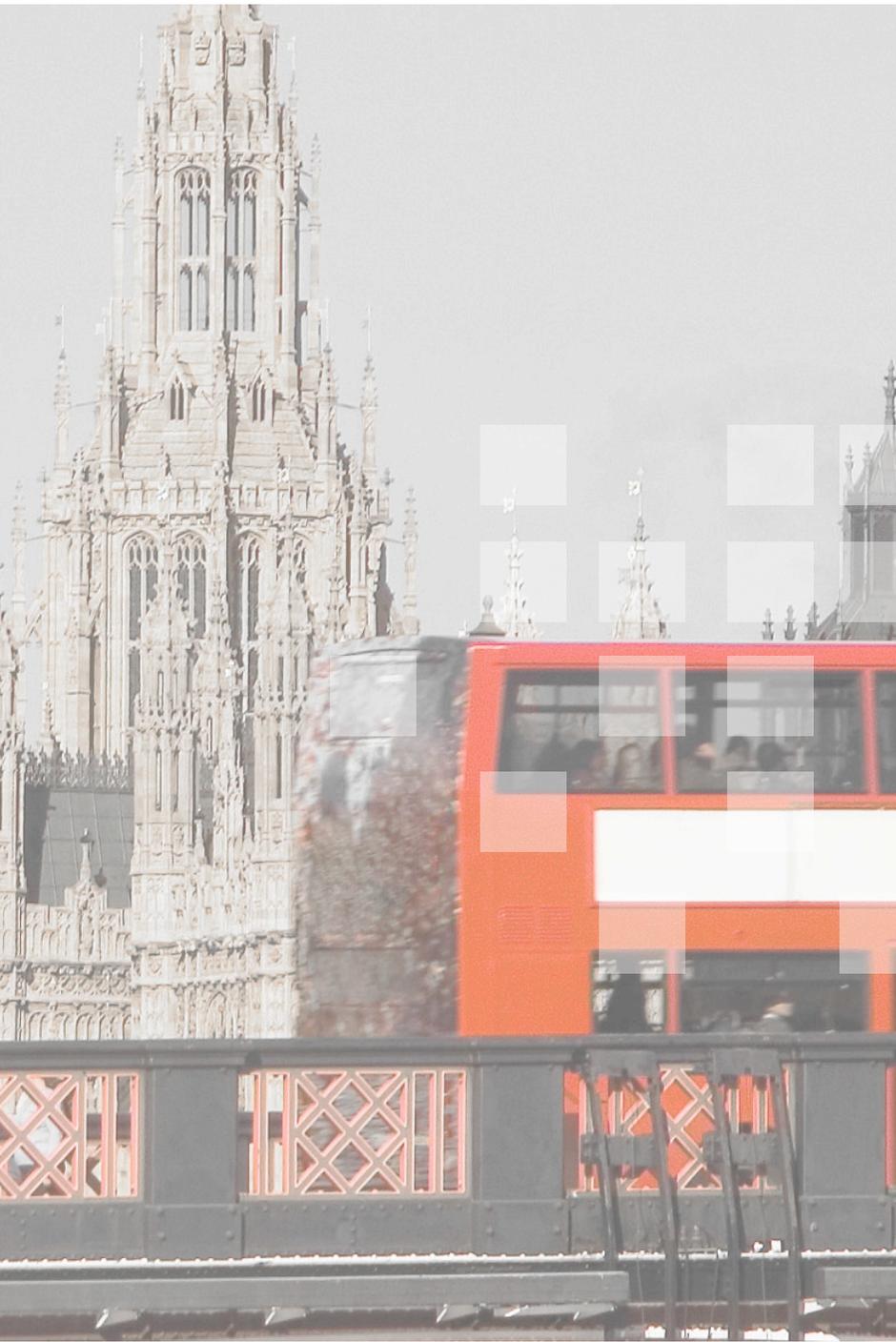




## TRANSPORT

**INDUSTRY**OVERVIEW

How Hochiki can help you



## 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.



STATS TAKEN FROM THE HOCHIKI CUSTOMER SERVICE SURVEY DECEMBER 2016



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

## TRANSPORT AND LIFE SAFETY

On 18 November 1987 at approximately 19:30 at King's Cross St. Pancras tube station, a fire broke out which ultimately led to the deaths of 31 people and the hospitalisation of a further 100 people. The fire started on an escalator serving the Piccadilly Line due to a lit match being dropped into a gap in the treads of the escalator. Up to this point there had never been a fatal fire on London Underground, but the publication of the resulting report led to the introduction of new fire safety regulations.

## PUTTING RELIABILITY FIRST

Most of us recognise the irritation and inconvenience caused by false fire alarm signals. It should come as no surprise, then, that false alarms are a significant issue for the transport business, fire brigades and the wider fire industry in general.

According to the Department for Communities and Local Government, of the 585,000 fire brigade call-outs across Britain in 2011/12, more than half (312,000) were false alarms. London Fire Brigade (LFB) figures show that a fire engine is called to a false alarm or "unwanted fire signal" every 12 minutes in the capital, costing an estimated £34 million a year. For the UK as a whole, the government puts the cost of false alarms at £1 billion a year.

All unwanted alarms are disruptive and not without risk if people panic in the ensuing evacuation. However, if large numbers of false alarms occur it also creates an environment of disbelief and complacency, which may cause people to delay taking action when a real fire occurs – something that could prove to be deadly in a transport scenario.

Hochiki has taken its mission to eliminate unwanted alarms to a whole new level by redesigning the chamber structure within its photoelectric smoke detector range. The result is a high performance optical chamber that is equally responsive to all smoke types and helps to reduce the possibility of unwanted alarms, as the algorithms in the devices can be adjusted to account for the different environments that they are used in. This, combined with flexible control equipment software, provides unrivalled levels of flexibility and reliability.

## COST EFFECTIVE

The lifespan of a fire detection system is generally considered to be in excess of 10 years. Therefore, although the initial cost of the system is important, the total cost of ownership – maintenance, servicing, breakdown charges and product replacement costs – can be many times higher than the initial investment.

A reliable high quality fire detection system from Hochiki will ensure that unwelcome and disruptive incidents will be all but eliminated, and that the costs associated with ensuring that it remains fit for purpose are kept to a minimum.



# TRANSPORT

## PROBLEMS & SOLUTIONS

### PROBLEMS

Transport hubs present an environment with many risks and an increased potential for many types of fire.

Transport hubs present various levels of risk and as such sometimes need specific response procedures.

The transport hub environment is complex, with a multitude of risk types coupled with the presence of a large number of members of the public.

Transport service staff need to be signalled in the event of an alarm discreetly to avoid unduly panicking travellers.

The costs to the hub to mobilise a Fire Response Team in a typical alarm scenario can amount to well over £1000, false alarms cause undue panic but more importantly, incur a waste of resources.

### SOLUTIONS

Enhanced sensitivity of the Photoelectric Smoke Sensor, equally sensitive to a wide range of fire/smoke types.

The functionality to adjust sensor sensitivities (pre-alarm and alarm) to suit the specific risk.

Proven reliability and virtual elimination of false alarms due to a suite of software enhancements to the robust Hochiki **ESP** communications protocol.

Hochiki offers a wide range of sounders capable of emitting a selection of tones at differing volumes as well as a range of visual alarm devices fully compliant to EN54 Part 23 to suit any environment or requirement based on the risk assessment.

Added flexibility, low cost of ownership to the end user and the benefits of the enhanced, virtually error-free communications protocol ensure Hochiki's products remain cost-effective, reliable and problem-free.

### EXCELLENCE AS STANDARD

Hochiki offers complete solutions for all fire detection and emergency lighting requirements. The Enhanced Systems Protocol (ESP) is a digital communications solution for intelligent fire detection and fully integrated systems, while the CDX range provides solutions for most conventional fire detection applications.

The company also has a range of solutions suited to more specialised environments. This includes the FIREwave wireless fire detection system for use in locations where minimum disturbance to the fabric of the building is important, the FIRElink aspirating solution and the FIREvac voice evacuation system. These are perfectly complemented by FIREscape, Hochiki's pioneering LED based emergency lighting system.

The company's manufacturing plants are accredited to ISO 9001 and through objectives and targets outlined within its corporate environmental policy and ISO 14001 certification, Hochiki is constantly developing new ways to reduce its environmental impact.

## INTELLIGENT

The ESP intelligent range incorporates a variety of high performance sensors, modules and ancillary devices to increase the ease of routine maintenance and commissioning. Enhanced System Protocol (ESP) applies Hochiki's high integrity communications link to all products in the range.



## CONVENTIONAL

Hochiki's CDX range covers one of the most extensive product portfolios, and provides solutions for most conventional fire detection applications, as well as security systems due to its wide voltage range (9.5~30 V dc).



## COMPLETE SYSTEM

Hochiki's HFP system offers a complete, flexible fire detection system which can be configured for any environment.



## EMERGENCY LIGHTING

FIREscape is a fully intelligent system based on LED technology and promises a flexible system low in voltage, that is simple to install and maintain, and reduces costs of ownership dramatically.



## SPECIALIST

For controlled environments, Hochiki's FIRElink range consists of high sensitivity air sampling equipment that identifies the faintest traces of smoke.



## HYBRID WIRELESS

Hochiki also caters for heritage sites with the FIREwave range which integrates wireless technology into Hochiki's ESP hardwired system to provide maximum flexibility and meet specific site requirements.



## HOCHIKI - THE LEADER IN INNOVATIVE LIFE SAFETY SOLUTIONS

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. For almost 100 years Hochiki Corporation has led the way in the design and manufacturer of innovative life safety solutions. Its leading edge commercial and industrial fire detection and emergency lighting products have acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's European headquarters were established in 1993 in the UK. Operating under Hochiki Europe, the business provides advanced fire detection and emergency lighting systems across the UK, Europe, Middle East, Africa and India. At present, Hochiki Europe builds in excess of 500,000 conventional and intelligent detectors and ancillaries per year at its purpose-built production facility.

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Assessed to ISO 9001

Environmental Certificate No.164EMS  
Assessed to ISO 14001



Business Member



Fire Industry Association



Affiliate Member



The CPD Certification Service



**Your Safety, Our Technology**