



ESP
Intelligent

Range Overview

ESP

Intelligent

■ GLOBALLY PROVEN PRODUCT DESIGN

Hochiki's Intelligent range of automatic fire detection and alarm equipment is designed and manufactured to the highest international standards, offering life safety products and systems of incomparable reliability. This extensive range of products includes high performance sensors, a wide selection of input and output modules, and ancillaries. All products use Hochiki's high integrity communications link, Enhanced System Protocol (ESP) that is fundamental to the range.

Specified in many prestigious projects, ESP is a secure, expandable open digital protocol that, together with Hochiki's Intelligent range of devices, is the premier choice for system designers.

■ OPEN PROTOCOL, FLEXIBILITY AND COST MINIMISATION

Hochiki's ESP is an open protocol and is supported by a number of leading independent control panel manufacturers. Panel development in close partnership with Hochiki ensures that the functional benefits of Hochiki's system are incorporated and rigorous testing of compatibility guarantees that compliance is maintained.

■ DATA INTEGRITY AND ERROR DETECTION

Strength against external interference is important for system integrity. ESP protocol minimises the possibility of data corruption using a proven combination of algorithms and applies parity and checksum principles to every packet of data in order to verify the data integrity and eliminate unwanted alarms or faults being generated by external noise.

■ SYSTEM TAILORING

Advanced controls within the Hochiki ESP products include variable sensitivities, volumes and tones that allow systems to be tailored to achieve optimum performance for life safety.

■ PROGRAMMING

Sensors are programmed through Hochiki's FAST addressing technique, using an electronic hand-held programmer or the system's Fire Alarm Panel.

- ▶ Flexible addressing allows devices to be programmed in any sequence
- ▶ Automatic address storage within the devices
- ▶ Secure addresses cannot be accidentally changed
- ▶ Time is saved by reducing commissioning time and minimising the likelihood of double addresses.



APPROVALS

Products are manufactured, tested and approved to international standards by the major European third party test bodies, such as LPCB and VdS, thereby guaranteeing the quality of design and manufacture of all of our life safety products.

EXTENDED ADDRESSING

Through the development of ESP, Hochiki has extended the usable address range from 127 to 254 for some alarm devices, minimising the cost of cabling and control panels, but without compromising conformance to European standards (EN54).

For example, a sensor mounted onto a sounder-beacon base uses just one main loop address and one extended address, but all three elements can be individually identified and controlled.

SUB-ADDRESSING

Hochiki's sub-addressing capability accommodates up to eight inputs and eight outputs at each address, allowing comprehensive control of the system. Each sub-address can be used within the Cause & Effect programme to give greater system flexibility, and to ensure clear text identification of each input or output at the control panel.

For example, a PCM module, which has four inputs and four outputs takes up one main loop address, but each input and output can be individually identified and controlled.

UNIQUE IDENTIFICATION

Each ESP device has a unique type code. Therefore, the system knows if the alarm has been generated from a smoke or heat sensor, a combination sensor or a manual callpoint. This level of discrimination ensures that the appropriate response to an alarm is given. The protocol can support up to 240 different codes, ensuring that future products can be accommodated with ease.

RAPID RESPONSE

ESP uses an Interrupt System to guarantee rapid responses from any device, and the time lapse between operation of a call point and indication of fire on the system is typically less than 1.5 seconds.

DIVERSE RANGE

The ESP range houses a variety of intelligent products including; high performance sensors, flexible input and output modules and an assortment of ancillaries. Recently expanded, the range now also features a highly sophisticated CO multi-sensor with 24 modes of operation and a 10-year CO cell life.

ESP devices are suitable for even the most demanding environments and in many cases, we can offer a marine approved, SIL approved or SCI variant.

Furthermore, ESP zone monitors can be used to interface ESP addressable systems with Hochiki's CDX conventional range.



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.



91%

of customer reviews rated our product quality as "VERY GOOD" or "EXCELLENT"

88%

of our customers are extremely likely to recommend our products based on quality

92%

of our customers rated us as VERY GOOD or EXCELLENT.

Statistics from the Hochiki customer service survey

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.

 **HOCHIKI**
World Class Leaders in Fire Detection Since 1918



ALN-EN
Intelligent Optical
Smoke Sensor
SCI version available



ATJ-EN
Intelligent Multi-Heat Sensor
SCI version available



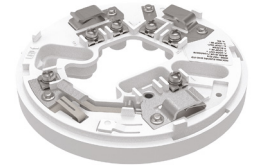
ACC-EN
Intelligent Multi Sensor
SCI version available



ACD-EN
Addressable Multi Sensor
with CO detection



YBN-R/3
Common Mounting Base



YBV-R/4
SCI Sensor Mounting Base
for use with SCI Sensors



CHQ-MRC2
Intelligent Mains Relay
Controller



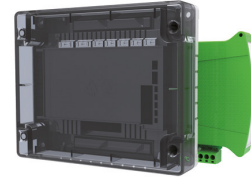
CHQ-DRC2(SCI)
Intelligent Dual Relay
Controller



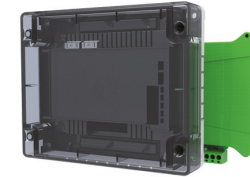
CHQ-PCM(SCI)
Intelligent Plant Control
Module



CHQ-DIM2(SCI)
Intelligent Dual Input
Module



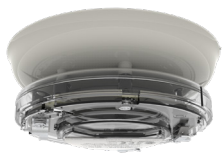
CHQ-DZM(SCI)
Intelligent Dual Zone
Module



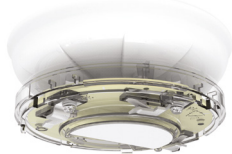
CHQ-SZM2(SCI)
Intelligent Single Zone
Monitor



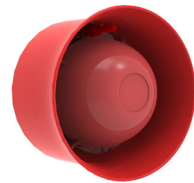
CHQ-DSC2(SCI)
Intelligent Dual Sounder
Controller



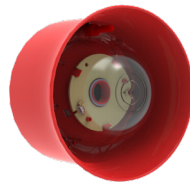
YBO-BS2
Intelligent Base Sounder



YBO-BSB2
Intelligent Base Sounder
Beacon



CHQ-WS2
Intelligent Loop-Powered
Wall Sounder



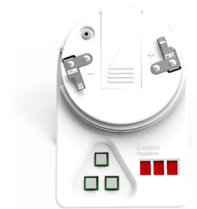
CHQ-WSB2
Intelligent Loop-Powered
Wall Sounder Beacon



HCP-E(SCI)
Intelligent Manual Call
Point Isolator



HCP-W(SCI)
Intelligent IP67
Weatherproof Manual Call
Point Isolator



TCH-B200
Hand Held Address
Programmer



CHQ-CB
Intelligent Loop-Powered
Ceiling Beacon



CHQ-WB
Intelligent Loop-Powered
Wall Beacon



CHQ-ARI
Intelligent Loop-Powered
Remote Indicator



CHQ-AB
Intelligent Loop-Powered
Visual Indicator

HOCHIKI EUROPE (UK) LIMITED

Grosvenor Road, Gillingham Business Park,
Gillingham, Kent, ME8 0SA, United Kingdom

Telephone: +44 (0)1634 260133

Facsimile: +44 (0)1634 260132

info@hochikieurope.com

www.hochikieurope.com

ISS8/MAY23



Quality Certificate No.164QMS
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